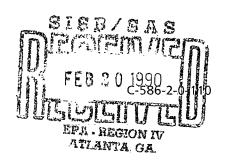
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ONE OR MORE PAGES IN THIS DOCUMENT ARE DIFFICULT TO READ DUE TO THE QUALITY OF THE ORIGINAL



1927 LAKESIDE PARKWAY SUITE 6 4 TUCKER, GEORGIA 30084 404-939-7710

February 15, 1990



Site Disposition: EPA Project Manager:

Mr. A.R. Hanke
Site Investigation and Support Branch
Waste Management Division
Environmental Protection Agency
345 Courtland Street, N.E.
Atlanta, Georgia 30365

Subject:

Screening Site Inspection, Phase I Moreland McKesson Company Chamblee, DeKalb County, Georgia EPA ID No. GAD072472707 TDD No. F4-8912-19

! Dear Mr. Hanke:

FIT 4 conducted a Phase I Screening Site Inspection at Moreland McKesson Company in Chamblee, DeKalb County, Georgia. This assessment included a review of EPA and state file material, completion of a target survey, and an offsite reconnaissance of the facility and surrounding area.

Moreland McKesson Company is located in an industrial park at 2180 Irvingdale Drive in Chamblee, Georgia. The facility began operation in 1964 as a distributor of industrial chemicals in the Atlanta area (Ref. 1). The facility was operated by the chemical group of McKesson Corporation, which changed its name from Foremost-McKesson in July 1983 (Refs. 1, 2). The facility later operated under the name of Van Waters and Rogers. During the offsite reconnaissance, the facility was found to be closed and inactive (Ref. 3).

Moreland McKesson distributed halogenated and non-halogenated solvents in bulk quantities. The facility operated a neutralization tank for acid or caustic rinse water, which was produced when tanker trucks were rinsed out. A wastewater treatment system at the facility was used with a 600-gallon underground tank to receive treated water prior to discharge to the local sewer (Refs. 1, 4). Any chemicals that the facility wanted to dispose of during its time of operation were taken to the McKesson Chemical Company disposal facility in New Castle, Kentucky (Ref. 5). The company also had two underground storage tanks that were used for gasoline and fuel oil storage (Ref. 4, p. 5). There is no documentation of any spills at the Moreland McKesson Company facility.

Moreland McKesson Company filed a RCRA Part A application as a treatment facility on November 13, 1980 in case accidental spills occurred. The facility withdrew its application and was classified as a nonhandler of hazardous materials in August 1989, under the name of Van Waters and Rogers (Refs. 4, 6).

Mr. A.R. Hanke Environmental Protection Agency TDD No. F4-8912-19 February 15, 1990 - page two

The facility lies in the Piedmont-Blue Ridge hydrogeologic regime. The area is typified by a thick regolith overlying fractured crystalline and metamorphosed sedimentary rocks. The bedrock is an undifferentiated biotite gneiss (Ref. 7, p. 251, 252). The aquifer system normally used in this area is referred to as the crystalline rock aquifer system. Water in this aquifer occurs in the regolith and within fracture systems in the underlying bedrock (Ref. 8, p. 180, 181). A well in the area was drilled into biotite gneiss and had a water level 30 feet below land surface (bls) (Ref. 9). The regolith that develops above granite and biotite gneiss is the layer of lowest hydraulic conductivity between the surface and the aquifer. Sediments of these types have been shown to have hydraulic conductivities which range between 1 x 10-5 to 1 x 10-7 cm/sec (Ref. 10). DeKalb County has a moist, temperate climate with a net annual precipitation of 8 inches per year, and a 1-year, 24-hour rainfall of 3.5 inches (Refs. 11, 12).

All residents within a 4-mile radius are served by municipal water systems with surface water intakes. No private wells were found in the area (Ref. 3). The DeKalb County water system supplies most of the 4-mile radius of the facility and obtains water from the Chattahoochee River upgradient of the facility. The Atlanta Water Department, which serves metropolitan Atlanta, has its intake on the Chattahoochee River at 2630 Ridgewood Road. The intakes for DeKalb County and the Atlanta Water Department systems are located in the Chattahoochee River Basin and would not be affected by runoff from the facility (Refs. 13, 14). The remainder of the area is served by Gwinnett County. All of Gwinnett is supplied water from an intake located on the lower end of Lake Lanier, approximately 14 miles north of Lawrenceville, Georgia (Ref. 15).

Surface water runoff from the facility would travel northwest toward Nancy Creek. The total distance of storm drainage flow is approximately 2600 feet. Nancy Creek flows north and joins the Chattahoochee River after approximately 5 miles. The remainder of the 15-mile migration pathway is along the Chattahoochee River (Refs. 3, 16). There are no surface water intakes along the 15-mile migration pathway (Ref. 17). Recreational fishing occurs in Nancy Creek and in the Chattahoochee River (Refs. 18, 19). Although the ranges of some endangered species include the state of Georgia, there are no critical habitats designated in DeKalb County (Ref. 20).

There are few houses in the area, and the Circle of Children Play School is located approximately 3,000 feet west of the facility. But most of the land use in the area of the facility is heavily industrialized (Ref. 3).

Due to the lack of groundwater and surface water targets and the enclosed material, FIT 4 recommends that no further action be planned for the Moreland McKesson Company. If there are any questions, please contact me at NUS Corporation.

Very truly yours,

Alvin L. Williams Project Manager Approved:

Greg Schank

ALW/dwf

Enclosures:

cc: Janice Thomas

#### REFERENCES

- 1. Potential Hazardous Waste Site Preliminary Assessment (EPA Form 2070-12) and attachments for Moreland McKesson Company. Filed by Steve Walker, Department of Natural Resources, August 29, 1985.
- 2. Ivan D. Meyerson, Law Department, Foremost-McKesson, Inc., letter to John D. Taylor, Department of Natural Resources, Environmental Protection Division, August 1, 1983. Subject: Moreland McKesson Financial Responsibility Requirements.
- 3. NUS Corporation Field Logbook No. F4-1950 for Moreland McKesson, Co., TDD No. F4-8912-19. Documentation of facility reconnaissance, January 15, 1990.
- 4. EPA Hazardous Waste Permit Application (EPA Form 3510-1) for Moreland McKesson Company, Chamblee, GA. Filed by W.D. Bain, Regional Vice-President, November 13, 1980.
- 5. Steve Walker, Georgia Department of Environmental Protection Division, telephone conversation with Joe Urban, McKesson Chemical Co., August 29, 1985. Subject: Clarification of company operation.
- 6. Hazardous Waste Data Management Systems (HWDMS), printout for Van Waters and Rogers, EPA ID No. GAD072472707, August 31, 1989.
- 7. Linda Aller, et al., <u>DRASTIC:</u> A <u>Standardized System for Evaluating Ground Water Pollution Using Hydrogeologic Settings</u>, EPA-600/2-87-035 (Ada, Oklahoma: EPA, April 1987).
- 8. U.S. Geological Survey, <u>National Water Summary 1984: Hydrologic Events, Selected Water Quality Trends and Ground Water Resources</u>, Water Supply Paper 2275 (1984).
- 9. C.W. Cressler, C.J. Thurmond, and W.G. Hester, <u>Ground-Water In The Greater Atlanta Region</u>, <u>Georgia</u>, Circular 63 (Environmental Protection Division, Geological Survey of Georgia), pp. 7, 106.
- 10. R. Allen Freeze and John A. Cherry, <u>Groundwater</u> (Englewood Cliffs, New Jersey: Prentice Hall, 1979), p. 29
- 11. U.S. Department of Commerce, <u>Climatic Atlas of the United States</u> (Washington, D.C.: GPO, June 1968) Reprint: 1983, National Oceanic and Atmospheric Administration.
- 12. U.S. Department of Commerce, <u>Rainfall Frequency Atlas of the United States</u>, Technical Paper No. 40 (Washington, D.C.: GPO, 1963).
- 13. NUS Corporation Field Logbook No. F4-1162 for Scientific-Atlanta, TDD No. F4-8811-52. Documentation of facility reconnaissance, December 16, 1988.
- 14. Mr. Earl, Atlanta Water, telephone conversation with Jelaine Tinsley, NUS Corporation, September 7, 1989. Subject: Service of Atlanta Water Department.
- 15. NUS Corporation Field Logbook No. F4-1517 for Cooper Feed and Seed, TDD No. F4-8905-45. Documentation of facility reconnaissance, June 23, 1989.

- 16. U.S. Geological Survey, 7.5 minute series Topographic Quadrangle Maps of Georgia: Norcross 1956 (Photorevised 1968, 1973), Stone Mountain 1956 (PR 1982), Northeast Atlanta 1954 (PR 1968, 1973), Chamblee 1954 (PR 1982), scale, 1:24,000.
- 17. Georgia Department of Natural Resources, Environmental Protection Division, <u>Water Availability and Use Chattahoochee River Basin</u> (1984), pp. 25, 30.
- 18. Kris Martin, Georgia Department of Natural Resources, telephone conversation with Geoffrey Carton, NUS Corporation, February 8, 1989. Subject: Recreation fishing in streams in DeKalb and Cobb counties.
- 19. Mark Wynn, Georgia Department of Natural Resources, telephone conversation with Greg Thomas, NUS Corporation, October 11, 1989. Subject: Recreational fishing in Nancy Creek.
- 20. U.S. Fish and Wildlife Service, <u>Endangered and Threatened Species of the Southeastern United</u> States (Atlanta, Georgia, 1988).

# MCKESSON CHEMICAL COMPANY GAD072472707 PRELIMINARY ASSESSMENT COVER SHEET

This facility is a Treatment/Storage/Disposal (TSD) facility that is regulated by the Georgia Environmental Protection Division under the authority of the Georgia Hazardous Waste Management Act (GHWMA). This facility presently has either Interim Status (Part A on file) or has a Hazardous Waste 'Facility Permit (Part B is complete). Any releases of hazardous wastes at this facility are regulated as a "prior release" under GHWMA and all corrective actions will be negotiated through the Part B Permit review process. This site is therefore assessed a "NONE" priority for a Site Inspection. No further investigations are recommended with respect to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

PMA/mcw008

# PRELIMINARY ASSESSMENT COVER SHEET MORELAND MCKESSON CO. GADO72472707

The Moreland McKesson Chemical Company is located at 2180 Irvingdale Drive in Chamblee, Georgia 30366. Since its inception in about 1964, the facility has been a distributor of industrial chemicals in the Atlanta area. According to a hazardous waste notification form provided by the facility, these industrial chemicals consist almost entirely of halogenated and non-halogenated solvents. These solvents are apparently handled in containers and in bulk quantities because state files indicate a drum storage area and tanker cleaning area are both present at the facility. In a phone conversation on 8/29/85, Mr. Joe Urban, Manager of the facility, stated that the facility has a neutralization tank for acid or caustic rinse water which is produced when tanker trucks are rinsed out. This rinse water is neutralized prior to discharge to the local sewer. Mr. Urban indicated that the facility does not have an NPDES permit.

The facility is located in a heavily industrialized section of Chamblee about 8 miles northeast of Atlanta. Surface runoff from the site enters Nancy Creek about 1/2 mile northeast of the site. Nancy Creek enters the Chattahoochee River about 5 miles north of the site. Ground water is not thought to be used in the area.

The site is assessed a "LOW" priority for a site inspection because little information exists regarding hazardous waste handling prior to 1980 and little is known of the integrity of the neutralization tank on site.

CSW/mcw023

## SEPA

# POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

GA D072472707

PART 1 - SI	TE INFORMAT	ION AN	ID ASSESSM	MENT	L UA ID	01241210	<u></u>
II. SITE NAME AND LOCATION							
O1 SITE NAME (Legal, common, or descriptive name of site)		02 STREE	T, ROUTE NO., O	R SPECIF	C LOCATION IDENTIFIER		
Moreland McKesson Company		2180	Irvinda]	le Dr	ive		
03 CITY	C	4 STATE	05 ZIP CODE	06 COU	NTY	07COUNTY CODE	08 CONG DIST
Chamblee		GA	30366	De	Kalb	089	04
33° 53' 45.0" LONGITU LONGITU 17'	1						
The facility is located at the in Chamblee.	intersecti	ion o	f Irvinda	ale D	rive and Peac	chtree Ro	ad
III. RESPONSIBLE PARTIES							
01 QWNER (# known)		02 STREE	T (Business, mailing,	residential)			
Moreland McKesson Company		P. 0	. Box 21	69			
03 CITY	. (	04 STATE	05 ZIP CODE	06	TELEPHONE NUMBER		
Spartanburg		SC	29304	(8	303 <sup>)</sup> 583-8481	1	
07 QPERATOR (if known and different from owner)		08 STREE	T (Business, malling,	residential)			
Moreland McKesson Company		P. 0	. Box 80	276			
09 CITY			11 ZIP CODE		TELEPHONE NUMBER	1	
Chamblee	ļ	GA	30366	(4	104) 452-1333		
13 TYPE OF OWNERSHIP (Checkone)  ( A. PRIVATE D B. FEDERAL:	(Agency name)		_ C.STA	TE O	D.COUNTY DE.MU	INICIPAL	
, □ F. OTHER:	(regardy manna)		_ G. UNK	NOWN			
(Specify) 14 OWNER/OPERATOR NOTIFICATION ON FILE (Check ail that apply)							,
A A RCRA 3001 DATE RECEIVED: / / 80 DE	B. UNCONTROLLE	D WAST	E SITE (CERCLA 1	03 c) DA	TE RECEIVED:	🗆 C.	. NONE
IV. CHARACTERIZATION OF POTENTIAL HAZARD					MONTH D	MAY YEAR	
01 ON SITE INSPECTION BY (Check all	that apply)						
T A FPA	☐ B. EPA			C. STA	TE D. OTHER	CONTRACTOR	
YES DATE MONTH DAY YEAR DE. LOC.	AL HEALTH OFFIC	CIAL E	] F. OTHER: _		(Specify)		
	TOR NAME(S): _						
X A. ACTIVE . □ B. INACTIVE □ C. UNKNOWN	86	TION 964 GINNING YI		inuir	1¶ □ UNKNOW	N	
of description of substances possibly present, known on spent halogenated solvents spent non-halogenated solvents unspecified corrosives (D002)	ALLEGED						
os description of rotential Hazard to environment and/ortential Low - little information exists to 1980.		g haz	ardous w	aste	handling pra	ctices pr	ior
V. PRIORITY ASSESSMENT	, , , , , , , , , , , , , , , , , , , ,						
01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete	ele Part 2 - Waste Inform	ation and Pa	rt 3 - Description of H	lezardous C	onditions and incidents)		
	C. LOW (Inspect on time a		□ D. NO	NE	needed, complete current dispo	sition form)	· · · · · · · · · · · · · · · · · · ·
VI. INFORMATION AVAILABLE FROM							
O1 CONTACT O:	2 OF (Agency/Organizat	lion)				03 TELEPHONE	NUMBER
	Moreland M		ON CO.	lo	7 TELEPHONE NUMBER	1 404 452	<u>?-1333</u>
Steve Walker PUA ( 5N	DNR	EP	D-RAU	1	404 )656-7404	08/29	)/ 85 YEAR

FORM 2070-1217-8744

### POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION

01 STATE | 02 SITE NUMBER | GA | D072472707

	· ·		PARI 2-WASI	EINFORMATION				
II. WASTE S	TATES, QUANTITIES, AN	ID CHARACTER	STICS					
	TATES (Check all that apply)	02 WASTE QUANT	f waste quantities	03 WASTE CHARACTE	RISTICS (Check all that a		OLATUS	
Lì A. SOLID Lì B. POWDEI Lì C. SLUDGE		ı	independent)	☐ B. CORROS	SIVE U.F. INFEC	CTIOUS [] J. EXPLOS	IVE VE	
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III. WASTE T	YPF	<u> </u>		1				
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS			•
SLU	SLUDGE				00 00			
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MES *	HEAVY METALS							
	OUS SUBSTANCES (See A		the cited CAS Numbers	<u> </u>	<u> </u>			
01 CATEGORY	02 SUBSTANCE N	<del></del>	03 CAS NUMBER	04 STORAGE/DISE	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION	
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V. FEEDS TO	CKS (See Appendix for CAS Numb	ers)	_					
CATEGORY	01 FEEDSTOO	K NAME	02 CAS NUMBER	CATEGORY	01 FEEDS	FOCK NAME	02 CAS NUMBER	
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FDS. :				FDS				
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FDS	• • • • • • • • • • • • • • • • • • • •			FDS				
VI. SOURCE	S OF INFORMATION (Cite	specific references, e g	. slate files, sample analysis.	<u> </u>				
	GA EPD State F							
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SEPA

## POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

		IFICATION		
01	STATE	02 SITE NUMBI	ΕŖ	
1	GA	D074727	0	7

HAZARDOUS CONDITIONS AND INCIDENTS				
01 ☐ A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 □ OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	)	☐ POTENTIAL	□ ALLEGED
01 X B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: unknown	02 GOSERVED (DATE:04 NARRATIVE DESCRIPTION	)	POTENTIAL	□ ALLEGED
Potential from unknown hazardo	us waste handling prac	tices	prior to 19	980.
01 C. C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	02 C OBSERVED (DATE:	)	□ POTENTIAL	□ ALLEGED
		•		ţo.
D1 [] D. FIRE/EXPLOSIVE CONDITIONS 3 POPULATION POTENTIALLY AFFECTED:	02  OBSERVED (DATE:	)	☐ POTENTIAL	☐ ALLEGED
· ·		***************************************	•	•
11 DE. DIRECT CONTACT 13 POPULATION POTENTIALLY AFFECTED:	02  OBSERVED (DATE:	)	□ POTENTIAL .	☐ ALLEGED
D1 (XF. CONTAMINATION OF SOIL 1/4 - 10  (Acres)	02  OBSERVED (DATE:04 NARRATIVE DESCRIPTION	)	X POTENTIAL	D ALLEGED
Potential from unknown hazardo	ous waste handling prac	ctices	prior to 1	980.
D1 [2] G. DRINKING WATER CONTAMINATION 3 POPULATION POTENTIALLY AFFECTED.	02 () OBSERVED (DATE:	)	☐ POTENTIAL	☐ ALLEGED
				:
01 Light. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED:	02 ☐ OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	)	□ POTENTIAL	ALLEGED
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01 (31 POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 I J OBSERVED (DATE:04 NARRATIVE DESCRIPTION	)	D POTENTIAL	D ALLEGED
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### **POTENTIAL HAZARDOUS WASTE SITE** PRELIMINARY ASSESSMENT

I. IDENTIFICATION 01 STATE 02 SITE NUMBER GA D072472707

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

				·
II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)			<del></del>	
01 I J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 🗆 OBSERVED (DATE:	)	☐ POTENTIAL	□ ALLEGED
			•	•
O1 IT K DAMAGE TO FALINA	02 TI ORSEDVED (DATE:		רו פסדבאידואי	☐ ALLEGED
01 🗇 K. DAMAGE TO FAUNA  04 NARRATIVE DESCRIPTION (Include name(s) of species)	02 OBSERVED (DATE:	1	☐ POTENTIAL	T WITERED
		!		<u> </u>
01 D L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02   OBSERVED (DATE:	)	☐ POTENTIAL	☐ ALLEGED
· <u>.</u>				
•				
			F1 86-20-1-1-1-1	C 41. PACE
01 M. UNSTABLE CONTAINMENT OF WASTES  (Spills/runoff, standing inquids/leaking drums)	02 OBSERVED (DATE:	)	☐ POTENTIAL	☐ ALLEGED
.03 POPULATION POTENTIALLY AFFECTED:	_ 04 NARRATIVE DESCRIPTION			
<b>S</b> 2				
			<u>:</u>	
01 , N. DAMAGE TO OFFSITE PROPERTY	02 OBSERVED (DATE:	)	DOTENTIAL	☐ ALLEGED
04 NARRATIVE DESCRIPTION .				
	•			
01 0 0. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs	02 GBSERVED (DATE:	)	☐ POTENTIAL	☐ ALLEGED
			••	-
· .				
•				
01 TP. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:	)	☐ POTENTIAL	□ ALLEGED
04 NARRATIVE DESCRIPTION	,			-
:			-	
			-	•
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEC	BED HAZARDS			
The state of the s				
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HI TOTAL BONIE ATION POTENTIALLY ASSESSED.				
III. TOTAL POPULATION POTENTIALLY AFFECTED: IV. COMMENTS				
commented				
##				
	<u> </u>			
V. SOURCES OF INFORMATION (Cite specific references, e.g., state titles, s	semple analysis, reports)			
CA EDD State Files				
GA EPD State Files.				-



Serving the Nation Since 1833

Law Department

Foremost-McKesson, Inc. One Post Street San Francisco, CA 94104 415 983 8319

Ivan D. Meyerson Assistant General Counsel

SIC 2819

## RECEIVED

AUG 05 1983

August 1, 1983

CNVIRONMENTAL PROTECTION DIVISION LAND PROTECTION BRANCH

FOREMOST McKESSON

John D. Taylor, Jr.
Industrial & Hazardous Waste
Management Program
Department of Natural Resources
Environmental Protection Division
270 Washington Street, S.W.
Atlanta, Georgia 30334

Re: McKesson Corporation --

OR MORELOND MCKESSON

Financial Responsibility Requirements

Dear Mr. Taylor:

Thank you very much for your letter of July 26, 1983 concerning the following two TSD facilities operated by our Chemical Group: •

Location

I.D. Number

Atlanta A05
Augusta A06

GA D0 724 727 07 GA D000 828 269

We wish to advise you that only storage activities are conducted at the foregoing sites inasmuch as they are facilities engaged in the wholesale distribution of industrial chemicals. Except in the unlikely event of a spill or other accident, no treatment or disposal of hazardous waste is conducted on these premises.

Incidentally, we would appreciate it if you would update your records in another respect. The name of our corporation, formerly known as Foremost-McKesson, Inc., was officially changed at our annual shareholders meeting on July 27, 1983, to McKesson Corporation. The change is one in name only and does not signify or involve any substantive change in our chemical business or operations.

Please feel free to contact me if you have further comments or questions. Thank you very much.

Very truly your,

Ivan D. Meyerson

IDM/smc

"Rite in the Rain"

## **ALL-WEATHER**

## **LEVEL**

Notebook No. 311

F4-1950
F4-8912-19
Moreland McKesson, Co.
Chamblee, DeKalb Gounty, GA
Alvin L. Williams
Project Manager

# LOGBOOK REQUIREMENTS

#### NOTE: ALL LANGUAGE SHOULD BE FACTUAL AND OBJECTIVE

REVISED - NOVEMBER 29, 1988

- 1) Record on front cover of the Logbook: TDD No., Site Name, Site Location, Project Manager.
- 2. All entries are made using ink. Draw a single line through errors. Initial and date corrections.
- Statement of Work Plan, Study Plan, and Safety Plan discussion and distribution to field team with team members' signatures.
- 4. Record weather conditions and general site information.
- Sign and date each page. Project Manager is to review and sign off on each logbook daily.
- Document all calibration and pre-operational checks of equipment. Provide serial numbers of equipment used onsite.
- Provide reference to Sampling Field Sheets for detailed sampling information.
- Describe sampling locations in <u>detail</u> and document all changes from project planning documents.
- Provide a site sketch with sample locations and photo locations.
- Maintain photo log by completing the stamped information at the end of the logbook.
- If no site representative is on hand to accept the receipt for samples, an entry to that effect must be placed in the logbook.
- 12. Record I.D. numbers of COC and receipt for sample forms used. Also record numbers of destroyed documents.
- 13. Complete SMO information in the space provided.

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•		There are workers outside
	SUNNY; Clear Skies; 520	
-		approximately 50 yards South
		at Specialty Mailers Envelope
435	Arrive at Moreland McKesson	Company.
	in Chamblee, GA.	The facility is completely ferced
		with locked entrances except
	facility is vacant and appears	for the office building.
	to be not active.	
		There are NO signs of stressed
	The Name has changed to	regulation or Karst terrain
	Var Waters + Rogers Inc.	J i
	which is indicated by a	Surface rowoff appears to
	Sign at the entrance.	be to the Northwest and
	J	Southeast
· · · · · · · · · · · · · · · · · · ·	The facility is localed wan	your jesto.
	industrial pank surround by	Theres a sewage drainage
	other businessus that are	Litch that runs along the
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fice and Circle	There is an open area
There are Commercial business	
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st of facility	tacility that appears to be
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1-15-90	1-15-90

House D. D. wooded Area Aplox 8 1-15-90 Ingersold Rand Co. office Ingersall Drive Enveloge Co.

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FACILITY	////	1 1011111111111111111111111111111111111	· LY must be c	ompleted reg	ardiess).	Com	piete .
VI. LOCATION	' / / / '	//5//////	the instru	ctions for d	etailed	item	descr
			which this	for the legal data is collect	autnori ed.	zation	is und
II. POLLUTANT CHARACTERISTICS	198						
INSTRUCTIONS: Complete A through J to determine whe					nswer "	ves" t	กลถง
Forestions, you must submit this form and the supplemental	form listed in the	parenthesis following the	question. Mark "	X" in the box	in the th	ird co	nmuic
tif the supplemental form is attached. If you answer "no" to	each question, y	ou need not submit any of	these forms. You	may answer '	'no" if y	our ac	tivity
is excluded from permit requirements; see Section C of the in		o, Section U of the instruct	ions for definitio	ns of bold—ta	ed term	<b>L</b> '-'	
SPECIFIC QUESTIONS	MARK 'X'	SPECIF	IC QUESTIONS	3.4	YES	HO	ATTAC
A. Is this facility a publicly owned treatment works		B. Does or will this facil					
(FORM 2A)	X	include a concentrate aguatic animal produ				x	
Transfer of a	6 17 18	discharge to waters of	the U.S.? (FORM	/ 2B) "	19	20	21
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in	x	D. Is this a proposed faction A or B above) who				X	İ
A or B above? (FORM 2C)	2 23 24	waters of the U.S.? (F	ORM 2D)		22	24	17
E Does or will this facility treat, store, or dispose of		F. Do you or will you in municipal effluent be					
The state of the s	×   .	taining, within one underground sources			· L	X	
g.G. Do you or will you inject at this facility any produced	5 29 30	H. Do you or will you in	<del></del>		31	3.5	33
water of other fluids which are brought to the surface in connection with conventional oil or natural gas pro-	l x	cial processes such a	s mining of sulfu	ir by the Fras	ch	$ _{\mathbf{x}} $	ĺ
duction, inject fluids used for enhanced recovery of		process, solution min tion of fossil fuel, or				^	ĺ
oil or natural gas, or inject fluids for storage of liquid hydrocerbons? (FORM 4)	4 38 34	(FORM 4)			37	38	29
Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the in-		J. Is this facility a prop NOT one of the 28					
structions and which will potentially emit 100 tons	X	instructions and which	h will potentially	y emit 250 to	ns	x	
per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an		per year of any air po Air Act and may affe					1
attainment area? (FORM 5)	0 41 42	area? (FORM 5)	a tradicio part es marchina	S-12-17-18-18-18-18-18-18-18-18-18-18-18-18-18-	13	44	43
III. NAME OF FACILITY		A CONTRACTOR OF THE PARTY OF TH	A CONTRACTOR OF THE PARTY OF TH			* *	
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IV. FACILITY CONTACT	SANSON - TO MAKE	CARLES NO MANAGEMENT	Sales Sales				× 10
A. NAME & TITLE (last, first,	& title)		B. PHONE (are	a code & no.)	٠,		ور و نور
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V. FACILITY MAILING ADDRESS	ing the last of the second			No. Walk	and the second	24	,
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VI. FACILITY LOCATION	rame and a	1. 1000 元 经基础的证据	NO SECURITY OF	Production of the	12.0	\$ 10 m 20	2 %
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· , C. CITY OR TOWN		D.STATE E. ZIP		haomu)			
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VIII. OPERA	TOR INFORMATION	A. NAME		进 中国社会会		B. Is the name listed
EM O D	ELAND MCKESS	ON COMPA	N Y	1 1 1 1		item VIII-A also t والمرابعة الأحرية owner?
R			· · · · · · · · · · · · · · · · · · ·			YES NO
10 1 10	TUS OF OPERATOR (Enter the appro	priate letter into the answer	box; if "Other	", specify.)	D. PHONE (	area code & no.)
F. FEDER	M = PUBLIC (other than fe	deral or state) P (sp	ecify)		A.	
7 - 11114	TE E. STREET OR	30		10		- 21 22 - 26
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SENSOR SE	F. CITY OR TOWN		G.STAT	<del>                                     </del>	IX. INDIAN LAND	an Indian India?
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STIL S	ES (Discharges to Surface Water)	D. PSD (Air Emissions	Tom Proposed	Sources)		
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₽8' <b>B.</b> UIC (	Underground Injection of Fluids)	C T I I I I	(specify)	T T 1 1/2		· A Milkelin, it f
9 U	30	9 15 16 17 18		(spec	(1 <i>)</i> (1)	
14230 C.	RCRA (Hazardous Wastes)	E. OTHER	(specify)	· · · · · · · · · · · · · · · · · · ·		
3 R		9		(spec	ify)	
XI. MAP	THE CONTRACT OF STANDARD STANDARDS	11.0		10	STATE OF THE STATE OF THE	Taring the second
Attach to t	his application a topographic map	of the area extending to	at least one n			
	of the facility, the location of ea storage, or disposal facilities, and					
water bodi	s in the map area. See instructions	for precise requirements		·	as an aprings, recis	
KIL NATUR	OF BUSINESS (provide a brief descrip	tion)	PROPERTY.	<b>经的资金额</b>	and Allendary Control	
Sunfac	: e water at this locatio	n is tranned in :	ınderarayı	nd contains	ent tanks whe	re the oH is
adiust	ed. if necessary, befor	e the water is pu	umped into	the sewer	system. To	anticipate
the po	ssibility of an acciden	tal spill which r	night resu	ılt in trac	e quantities	of a hazardou:
	al being present in the tment facility.	containment syst	iem, we ha	ive elected	to list this	location as
a vica	ineric ractificy.			•		
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<b>attach</b> men	nder penalty of law that I have pe ts and that, based on my inquiry	' of those persons immi	ediately respo	nsible for obtain	ning the information	on contained in the
. applicatioi	n, I believe that the information is mation, including the possibility of	true, accurate and com	plete. I am a	ware that there	are significant pena	Ities for submitting
A. NAME &	OFFICIAL TITLE (TYPE or print)	B. SIGNATI	JRE/	$\overline{\Omega}$		DATE SIGNED
	Bain, Jr. al Vice-President		1/X()	Sam	<u></u>	11/13/80
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Trype in the unshaded areas only gre spaced for elite type, i.e., 12 characters/inch). Form Approved OMB No. 158-S80004 U.S. ENVIRONMENTAL PROTECTION AGENCY I. EPA I.D. NUMBER HAZARDOUS WASTE PERMIT APPLICATION G Consolidated Permits Program (This information is required under Section 3005 of RCRA) OFFICIAL USE ONLY CATION DATE RECEIVED COMMENTS ROVED I. FIRST OR REVISED APPLICATION Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility EPA I.D. Number in Item I above. A. FIRST APPLICATION (place an "X" below and provide the appropriate date) 2.NEW FACILITY (Complete item below., 1: EXISTING FACILITY (See instructions for definition of "existing" facility.

Complete item below.) FOR NEW FACILIT PROVIDE THE DA' (yr., mo., & day) OPI TION BEGAN OR I 1.4 FOR EXISTING FACILITIES, PROVIDE THE DATE (yr., mo., & day)
OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED
(use the boxes to the left)

13 17 18

15 17 18

16 17 18 EXPECTED TO BE B. REVISED APPLICATION (place an "X" below and complete Item I above) 1. FACILITY HAS INTERIM STATUS 2. FACILITY HAS A RCRA PERMIT III. PROCESSES - CODES AND DESIGN CAPACITIES A. PROCESS CODE - Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided f entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, it describe the process (including its design capacity) in the space provided on the form (Item III-C). B. PROCESS DESIGN CAPACITY - For each code entered in column A enter the capacity of the process. 1. AMOUNT - Enter the amount. 2. UNIT OF MEASURE - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used. PRO-APPROPRIATE UNITS OF APPROPRIATE UNITS OF **CESS** MEASURE FOR PROCESS **CESS** MEASURE FOR PROCESS DESIGN CAPACITY DESIGN CAPACITY **PROCESS** CODE **PROCESS** Storage: Treatment: GALLONS OR LITERS GALLONS OR LITERS CUBIC YARDS OR CUBIC METERS GALLONS OR LITERS CONTAINER (barrel, drum, etc.) TANK TOI GALLONS PER DAY OR 502 503 LITERS PER DAY GALLONS PER DAY OR , . .; WASTE FILE SURFACE IMPOUNDMENT T02 LITERS PER DAY TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR \_\_T03 SURFACE IMPOUNDMENT 17 Disposal: LITERS PER HOUR INJECTION WELL . GALLONS OR LITERS ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR D79 GALLONS PER DAY OR LITERS PER DAY OTHER (Use for physical, chemical, - T04 thermal or biological treatment - C. LANDFILL 1 .. processes not occurring in tanks, HECTARE-METER
ACRES OR HECTARES
GALLONS PER DAY OR
LITERS PER DAY surface impoundments or incinerators. Describe the processes in the space provided; Item III-C.) <del>م</del> ج LAND APPLICATION (EGI £. GALLONS OR LITERS SURFACE IMPOUNDMENT D83 . 19.60 UNIT OF UNIT OF UNIT MEASURE MEASURE MEASL UNIT OF MEASURE UNIT OF MEASURE UNIT OF MEASURE CODE CODE COD ACRE-FEETC. . . . . . . LITERS PER DAY . . . . . . . . . . . . . V LITERS ... L
CUBIC YARDS ... Y
CUBIC METERS ... C TONS PER HOUR . . HECTARE-METER. . . . METRIC TONS PER HOUR. . . . . . . . W GALLONS PER HOUR ......E HECTARES . . . . . EXAMPLE FOR COMPLETING ITEM III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and t other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.  $\overline{\mathsf{C}}$ DUP . 1 13 14 15 B. PROĆEŚS DESIGN CAPACITY B. PROCESS DESIGN CAPACITY ER A. PRO 8 A. PRO FO FOR ш CESS 2. UNIT CESS 2. UNIT OFFICIAL OFFIC  $\alpha$ CODE ¥ E E Σ 1. AMOUNT USE I. AMOUNT SURE (cnter code) SURE (enter cude) (from list ONLY ONI abouz) above) ΞZ 20. 2.0 S 0 2 G 600 5 7 0 3 6 E 20 0 2 U 180 7 2 8 3 9 4 10

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IV. DESCRIPTION OF HAZARDOUS WAST		
A. EPA HAZARDOUS WASTE NUMBER — Enter handle hazardous wastes which are not listed in tics and/or the toxic contaminants of those hazard	40 CFR, Subpart D, enter the four-digit number	t D for each listed hazardous waste you will handle. per(s) from 40 CFR, Subpart C that describes the chara
B. ESTIMATED ANNUAL QUANTITY — For each basis. For each characteristic or toxic contaminar which possess that characteristic or contaminant.	i listed waste entered in column A estimate that entered in column A estimate the total annual	ne quantity of that waste that will be handled on an all quantity of all the non-listed waste/s/ that will be h
C. UNIT OF MEASURE — For each quantity enter codes are:	ed in column B enter the unit of measure coo	de. Units of measure which must be used and the appro
ENGLISH UNIT OF MEASURE POUNDS	KILOGRA	MSK
	for quantity, the units of measure must be co	inverted into one of the required units of measure taking
to indicate how the waste will be stored, treate For non-listed hazardous wastes: For each contained in Item III to indicate all the protection that characteristic or toxic contaminant. Note: Four spaces are provided for enterin	ed, and/or disposed of at the facility. characteristic or toxic contaminant entered in cesses that will be used to store, treat, and/or	column A, select the code/s/ from the list of process dispose of all the non-listed hazardous wastes that per the first three as described above; (2) Enter "000" umber and the additional code/s/.
2. PROCESS DESCRIPTION: If a code is not lis		
more than one EPA Hazardous Waste Number shall b  1. Select one of the EPA Hazardous Waste Numl quantity of the waste and describing all the pr  2. In column A of the next line enter the other "included with above" and make no other ent  3. Repeat step 2 for each other EPA Hazardous Waste Step 2 for each other EPA Hazardou	e described on the form as follows: bers and enter it in column A. On the same line ocesses to be used to treat, store, and/or dispos EPA Hazardous Waste Number that can be u ries on that line. Naste Number that can be used to describe the	sed to describe the waste. In column D(2) on that lin
per year of chrome shavings from leather tanning ar	nd finishing operation. In addition, the facility 30 pounds per year of each waste. The other waste.	will treat and dispose of three non-listed wastes. Two waste is corrosive and ignitable and there will be an est
A. EPA HAZARD. B. ESTIMATED ANNUAL	C. UNIT	D. PROCESSES
ZO WASTENO QUANTITY OF WASTE	I. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1 K 0 5 4 900	P T 0 3 D 8 0	• •
X-2 0 0 0 2 400	P T 0 3 D 8 0	
X-3 D 0 0 1 100	P T'0'3 D'8'0	
X-4 D 0 0 2		included with above
EPA Form 3510-3 (6-80)	PAGE 2 OF 5	CONTINUE OF

SSES (continued)

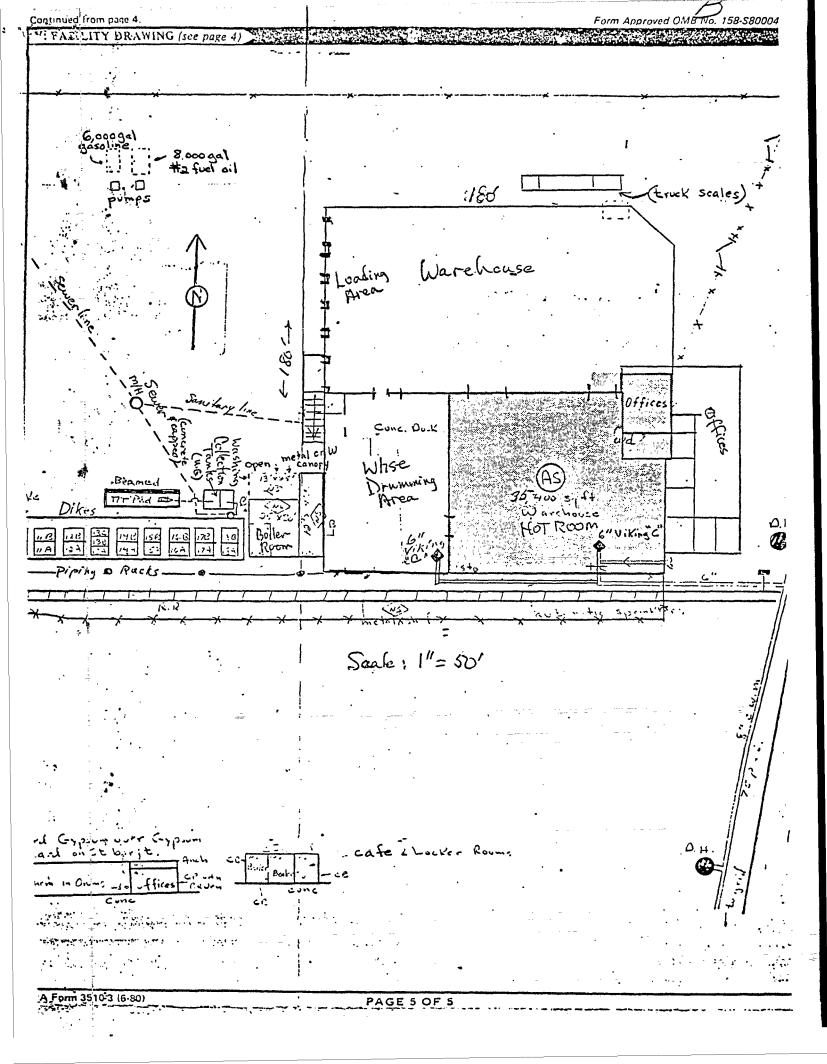
R ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "TO4"). FOR EACH PROCESS ENTERED HERE DESIGN CAPACITY.

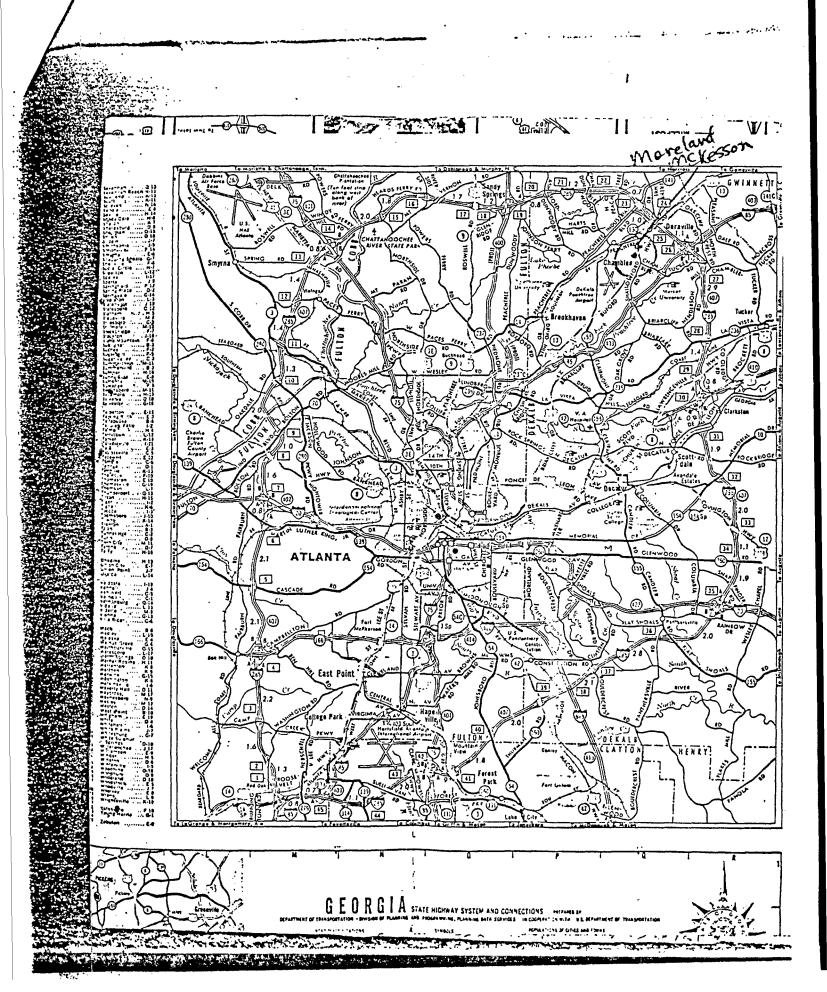
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1 · ku			D: 10. le)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	OF MEA- SURE (enter code)		(er	SS CODES	5	2. PROCESS DESCRIPTION (if a code is not entered in D(1))	
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EPA I.D. NO. (enter from page 1)		
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V. FACILITY DRAWING		
All existing facilities must include in the space provided on page	5 a scale drawing of the facility (see instructions for n	nore detail),
VI. PHOTOGRAPHS		The Market State of the Control of t
All existing facilities must include photographs (aerial or	ground-level) that clearly delineate all existing	g structures; existing storage,
treatment and disposal areas; and sites of future storage,	treatment or disposal areas (see instructions fo	r more detail). Glessy designed a 100 cm.
VII. FACILITY GEOGRAPHIC LOCATION  LATITUDE (degrees, minutes, & seconds)	LONGITUDE (de	rees, minutes, & seconds)
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VIII, FACILITY OWNER	The second secon	<b>《大学》,"大学的一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个</b>
Control of the contro		#V# :- ab - bass an aba tafe a
XA. If the facility owner is also the facility operator as listed	in Section VIII on Form 1, "General Information",	place au Y in the pox to the left a
Skip to Section IX below.	in Section VIII on Form 1, "General Information",	place an X in the box to the left a
skip to Section IX below.	in Section VIII on Form 1, complete the following in	
B. If the facility owner is not the facility operator as listed	in Section VIII on Form 1, complete the following in	ems:
B. If the facility owner is not the facility operator as listed  1. NAME OF FACILITY  E	in Section VIII on Form 1, complete the following in	2. PHONE NO. (area code
Skip to Section IX below.  B. If the facility owner is not the facility operator as listed  1. NAME OF FACILITY  E  19 115  3. STREET OR P.O. BOX	in Section VIII on Form 1, complete the following is SEGAL OWNER  4. CITY OR TOWN	ems:  2. PHONE NO. (area code
B. If the facility owner is not the facility operator as listed  1. NAME OF FACILITY  E	in Section VIII on Form 1, complete the following is SLEGAL OWNER	2. PHONE NO. (area code
Skip to Section IX below.  B. If the facility owner is not the facility operator as listed in the facility operator as li	in Section VIII on Form 1, complete the following is SEGAL OWNER  4. CITY OR TOWN	2. PHONE NO. (area code
Skip to Section IX below.  B. If the facility owner is not the facility operator as listed in the facility operator as li	in Section VIII on Form 1, complete the following is SEGAL OWNER  4. CITY OR TOWN  C  C  II	2. PHONE NO. (area code  55 55 56 51 59 41 63  5. ST. 6. ZIP CODE
Skip to Section IX below.  B. If the facility owner is not the facility operator as listed  1. NAME OF FACILITY  E  II. IS  3. STREET OR P.O. BOX  F  III. IX. OWNER CERTIFICATION  I certify under penalty of law that I have personally exam documents, and that based on my inquiry of those individed.	in Section VIII on Form 1, complete the following is SLEGAL OWNER  4. CITY OR TOWN  C C Is is in the information suit the information suit duals immediately responsible for obtaining the	Dems:  2. PHONE NO. (area code  5. ST. 6. ZIP CODE  bomitted in this and all attached e information, I believe that the
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RENCE #	5 FROM: Steve Walker - Ga, EPD (404)656 - 7404
1	TO: Mr. Joe Volan - McKesson Chem. Co. (404) 452 - 1333
	SITE: Moreland Mckesson Co.
š .	DATE: 8/29/85 TIME: 10:25 a.m.
•	
	COMMENTS: 5 tate files on Mckesson Chem. Co. an
	quite vague regarding exactly what the company does.
	I called Mr. Urban to clarify this.
	Mr. Urban stated that the facility is a
	distributor (wholesoler) for industrial chemicals (such
<u>-</u>	as solvents. Mr. Unban stated that the facility has
* ·	been active for about 25 years and that there has
	never been any burief or disposal on site. He stated the
A BOLLANDA ( CONTRACTOR	any chemicals that the facility wants to dispose of
• •	are taken to a Makesson Chan Con diseasal Lacillati
	are taken to a Mckesson Chem. Co. disposal facility at New Castle, Ky or to a Mckesson incinerator
	in the C Puento Rico.
	Mr. Urban Stated theat the facility does not
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HWR07A REPORT DATE 89/08/31

#### FACILITY LIST BY NAME

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PAGE 243

FAC:= 3825 GEN.= 3211 TRANS.= 444 TSDF= 82 UIC= 38 C1101-1= 443 C1101-2= 2629 C1101-3= 139 C303-1= 142 C303-7=

C1105-1=INTERIM STATUS/PERMIT CANDIDATE= 12 C1105-2=PERMITTED FACILITIES= 69 C1105-3=PERMIT BY RULE=

C1105-4=WITHDRAWAL REQUEST= 6 C1105-5=WITHDRAWAL (NO INTERIM STATUS)= 17 C1105-6=WITHDRAWAL (NO PART B CALLED)= 244

C1105-7=WITHDRAWN/INTERIM STATUS TERMINATED= 22 C1105-8=ISCL OR COMPLIANCE= C1105-9=NEW FACILITY/PART B APPLICANT=

C1105-A=RCRA PERMIT DENIED= 3 C1105-0=OTHER= 2

INT: Y=QUALIFY INTERM STATUS, BLANK=NO, C119-1=EXIST FAC, C119-2=NEW 303-1=NON-HANDLER, 3=DEAD MAIL, 4=RCRA EXEMPT, 5=EXEMPT RECYCL, 7=OUT OF BIZ

# DRASTIC: A Standardized System for Evaluating Ground Water Pollution Potential Using Hydrogeologic Settings

bу

Linda Aller
Truman Bennett
Jay H. Lehr
Rebecca J. Petty
and
Glen Hackett
National Water Well Association
Dublin, Ohio 43017

Cooperative Agreement CX-810715-01

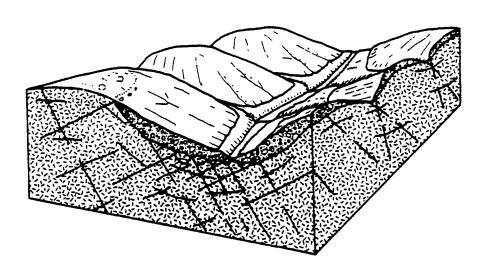
#### **Project Officer**

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U.S. ENVIRONMENTAL PROTECTION AGENCY
ADA, OKLAHOMA 74820

## 8. PIEDMONT BLUE RIDGE GROUND-WATER REGION





8A	Mountain Slopes
8B	Alluvial Mountain Valleys
8C	Mountain Flanks
8D	Regolith
8E	River Alluvium
8F	Mountain Crests
8G	Swamp/Marsh

#### 8. PIEDMONT BLUE RIDGE REGION

(Thick regolith over fractured crystalline and metamorphosed sedimentary rocks)

The Piedmont and Blue Ridge region is an area of about 247,000 km<sup>2</sup> extending from Alabama on the south to Pennsylvania on the north. The Piedmont part of the region consists of low, rounded hills and long, rolling, northeast-southwest trending ridges whose summits range from about a hundred meters above sea level along its eastern boundary with the Coastal Plain to 500 to 600 m along its boundary with the Blue Ridge area to the west. The Blue Ridge is mountainous and includes the highest peaks east of the Mississippi. The mountains, some of which reach altitudes of more than 2,000 m, have smooth-rounded outlines and are bordered by well-graded streams flowing in relatively narrow valleys.

The Piedmont and Blue Ridge region is underlain by bedrock of Precambrian and Paleozoic age consisting of igneous and metamorphosed igneous and sedimentary rocks. These include granite, gneiss, schist, quartzite, slate, marble, and phyllite. The land surface in the Piedmont and Blue Ridge is underlain by clay-rich, unconsolidated material derived from in situ weathering of the underlying bedrock. This material, which averages about 10 to 20 m in thickness and may be as much as 100 m thick on some ridges, is referred to as saprolite. In many valleys, especially those of larger streams, flood plains are underlain by thin, moderately well-sorted alluvium deposited by the streams. When the distinction between saprolite and alluvium is not important, the term regolith is used to refer to the layer of unconsolidated deposits.

The regolith contains water in pore spaces between rock particles. bedrock, on the other hand, does not have any significant intergranular porosity. It contains water, instead, in sheetlike openings formed along fractures (that is, breaks in the otherwise "solid" rock). The hydraulic conductivities of the regolith and the bedrock are similar and range from about 0.001 to 1 m day-1. The major difference in their water-bearing characteristics is their porosities, that of regolith being about 20 to 30 percent and that of the bedrock about 0.01 to 2 percent. Small supplies of water adequate for domestic needs can be obtained from the regolith through large-diameter bored or dug wells. However, most wells, especially those where moderate supplies of water are needed, are relatively small in diameter and are cased through the regolith and finished with open holes in the bedrock. Although, as noted, the hydraulic conductivity of the bedrock is similar to that of the regolith, bedrock wells generally have much larger yields than regolith wells because, being deeper, they have a much larger availble drawdown.

Dooling

REFERENCE # 8

# National Water Summary 1984

Hydrologic Events, Selected Water-Quality Trends, and Ground-Water Resources

By United States Geological Survey

United States Geological Survey Water-Supply Paper 2275

# GEORGIA Ground-Water Resources

Ground water is an abundant natural resource in Georgia and comprises 18 percent of the total freshwater used (including thermoelectric) in the State. Georgia's aquifers provide water for more than 2.6 million people, or almost one-half of the total population of the State. Of this number, about one-half are served by public water-supply systems and one-half by rural water-supply systems. Most ground-water withdrawals are in the southern one-half of the State where the aquifers are very productive. Ground-water withdrawals in 1980 for various uses, and related statistics, are given in table 1.

#### **GENERAL SETTING**

Differing geologic features and landforms of the several physiographic provinces of Georgia cause significant differences in ground-water conditions from one part of the State to another (fig. 1). The most productive aquifers in the State are located in the Coastal Plain province in the southern one-half of Georgia; the province is underlain by alternating layers of sand, clay, and limestone that dip and thicken to the southeast. Aquifers generally are confined in the Coastal Plain, except near their northern limit where the formations are exposed or are near land surface. Principal aquifers of the Coastal Plain include the Floridan aquifer system, the Claiborne aquifer, the Clayton aquifer, and the Cretaceous aquifer system (table 2). The Piedmont and Blue Ridge provinces, which include most of the northern one-half of Georgia, are underlain by massive igneous and metamorphic rocks that form aquifers of very low permeability. The Valley and Ridge and Appalachian Plateaus provinces, which are in the northwestern corner of Georgia, are underlain by layers of sandstone, limestone, dolostone, and shale of Paleozoic age.

Recharge to the ground-water system in Georgia is derived almost entirely from precipitation. Average annual precipitation based on the 30-year period of record (1941-70) is about 50 inches (in.) statewide and ranges from about 44 in. in the east-central part of the State to about 76 in. in the northeastern corner of the State. Of this amount, about 88 percent is discharged to streams or is lost to evapotranspiration, and about 12 percent enters the ground-water system as recharge (Carter and Stiles, 1983).

#### PRINCIPAL AQUIFERS

#### FLORIDAN AQUIFER SYSTEM

The Floridan aquifer system is one of the most productive ground-water reservoirs in the United States. More than 600 million gallons per day (Mgal/d) is withdrawn from the aquifer system in Georgia (1980), making it the principal source of ground water in the State. The aquifer system generally is confined but is semiconfined to unconfined near its northern limit and near areas of karst topography in the Dougherty Plain and near Valdosta. In parts of the area where the Floridan aquifer system is exposed or is near land surface, intensive pumping can contribute to the formation of sinkholes. Although water suitable for most uses can be obtained from the aquifer system throughout most of the Coastal Plain, water-quality problems have occurred in some

#### Table 1. Ground-water facts for Georgia

[Withdrawal data rounded to two significant figures and may not add to totals because of independent rounding. Mgal/d = million gallons per day; gal/d = gallons per day. Source: Solley, Chase, and Mann, 1983]

and Mann, 1983)				
Population served by ground water, 1	980	)		
Number (thousands)		-		2,604
Percentage of total population		-		- 48
From public water-supply systems:				
Number (thousands) Percentage of total population		-	-	1,320
Percentage of total population		•	-	- 24
From miral self-conniled eveteme.				
Number (thousands)		-	-	1,284
Number (thousands) Percentage of total population		-	-	<u>- 23</u>
Freshwater withdrawals, 1980				
Surface water and ground water, total (Mgal/d)		-		6,700
Ground water only (Mgal/d) Percentage of total		-	-	1,200
Percentage of total		-	-	- 18
Percentage of total excluding withdrawals for				
thermoelectric power		_	-	- 52
Category of use				
Public-supply withdrawals:				
Ground water (Mgal/d)		-	-	- 230
Percentage of total ground water		-	-	- 19
Percentage of total public supply Per capita (gal/d)		-	-	- 29
Per capita (gal/d)		•	•	- 174
Rural-supply withdrawals:				
Domestic:				
Ground water (Mgal/d)		-	-	- 140
Percentage of total ground water	• •	-	-	- 12
Percentage of total rural domestic		-	•	- 100
Per capita (gal/d)		-	-	- 109
Livestock:				
Ground water (Mgal/d) Percentage of total ground water	• •	-	-	- 1/
Percentage of total livestock		-	-	- 61
Industrial self-supplied withdrawals:		•	-	- 01
		_		- 400
Ground water (Mgal/d)		-	•	- 34
Percentage of total industrial self-supplied:			-	- 54
Including withdrawals for thermoelectric nower		_	_	8
Including withdrawals for thermoelectric power Excluding withdrawals for thermoelectric power		_	_	- 57
Irrigation withdrawals:	•	_	-	٠,
Ground water (Mgai/d)		-	-	- 380
Percentage of total ground water		-		- 32
Percentage of total irrigation		-	_	- 66
		_		

areas. The following examples serve to illustrate the problem: (1) at Brunswick, the intrusion of brackish water into the aquifer system resulted in chloride concentrations of as much as 1,000 milligrams per liter (mg/L) in some wells (Wait and Gregg, 1973), (2) in the area of Wheeler and Montgomery Counties in central-south Georgia, naturally occurring radioactivity exceeds 25 picocuries per liter (S. S. McFadden, Georgia Geologic Survey, oral commun., September 1984), (3) in nearby Ben Hill County, barium concentrations of as much as 2.1 mg/L are present in some wells (S. S. McFadden, Georgia Geologic Survey, oral commun., September 1984), (4) at Valdosta, naturally occurring organic substances, color, and hydrogen sulfide gas have been a cause of concern (Krause, 1979), and (5) in the Dougherty Plain area, small concentrations of commonly used pesticides have been detected in some farm wells (Hayes and others, 1983).

Table 2. Aquifer and well characteristics in Georgia

[Ft = feet; gal/min = gallons per minute. Sources: Reports of the U.S. Geological Survey and Georgia Geologic Survey]

		characteristics					
Aquifer name and description	Depth (ft)	Yield (ga		Remarks			
.i.	Common range	Common range	May exceed				
Floridan aquifer system: Limestone, dolomite, and calcareous sand. Generally confined.	40 - 900	1,000 - 5,000	11,000	Supplies 50 percent of ground water in State. Major users include the Savannah, the Brunswick, the Jesup, the St. Marys, the Albany, and the Dougherty Plain areas. Water-level declines at Savannah and Brunswick. Intrusion of brackish water from deeper zones at Brunswick. In some areas, water has natural radioactivity that exceeds State and national drinkingwater regulations. Formerly called principal artesian aquifer.			
Claiborne aquifer: Sand and sandy limestone. Generally confined.	20 - 450	150 - 600	1,500	Major source of water in southwestern Georgia. Supplies industrial and municipal users at Dougherty, Crisp and Dooly Counties and provides irrigation water north of Dougherty Plain. Called Tertiary sands aquifer in South Carolina and Tennessee. Part of Tertiary sedimentary aquifer system in Alabama.			
Clayton aquifer: Limestone and sand. Generally confined.	40 - 800	250 <b>- 600</b>	2,150	Major source of water in southwestern Georgia. Supplies industrial and municipal users at Albany and provides irrigation water northwest of Albany. Water-level declines exceed 100 ft at Albany. Iron concentrations in Randolph County exceed national drinking water regulations. Part of Tertiary sedimentary aquifer system in Alabama.			
Cretaceous aquifer system: Sand and gravel. Generally confined.	30 – 750	50 - 1,200	3,300	Major source of water in east-central Georgia. Supplies water for kaolin mining and processing. Includes Providence aquifer in southwestern Georgia. Water-level declines greater than 50 ft at kaolin mining centers and 100 ft near Albany. Iron concentrations exceed national drinking-water regulations in some areas. Called Black Creek and Middendorf aquifers in South Carolina.			
Paleozoic aquifers: Sandstone, limestone, and dolomite; storage is in regolith and fractures and solution openings in rock. Generally unconfined.	15 <b>- 2,100</b>	1 - 50	3,500	Not laterally extensive. Limestone and dolomite aquifers most productive. Springs in limestone and dolostone aquifers discharge at rates of as much as 5,000 gal/min. Sinkholes can form in areas of intensive pumping. Water is generally of good quality, although contamination from septic tanks and farm waste reported in some areas. Laterally equivalent to Paleozoic carbonate aquifers in Alabama and Pennsylvanian sandstone aquifers in Alabama and Tennessee.			
Crystalline rock aquifers: Granite, gneiss, schist, and quartzite; storage is in fractures in rock and in regolith. Generally unconfined.	40 - 600	1 - 25	500	Not laterally extensive. Water of good quality with exception of large concentrations of iron and manganese in some areas and contamination from septic tank effluent in densely populated areas.			

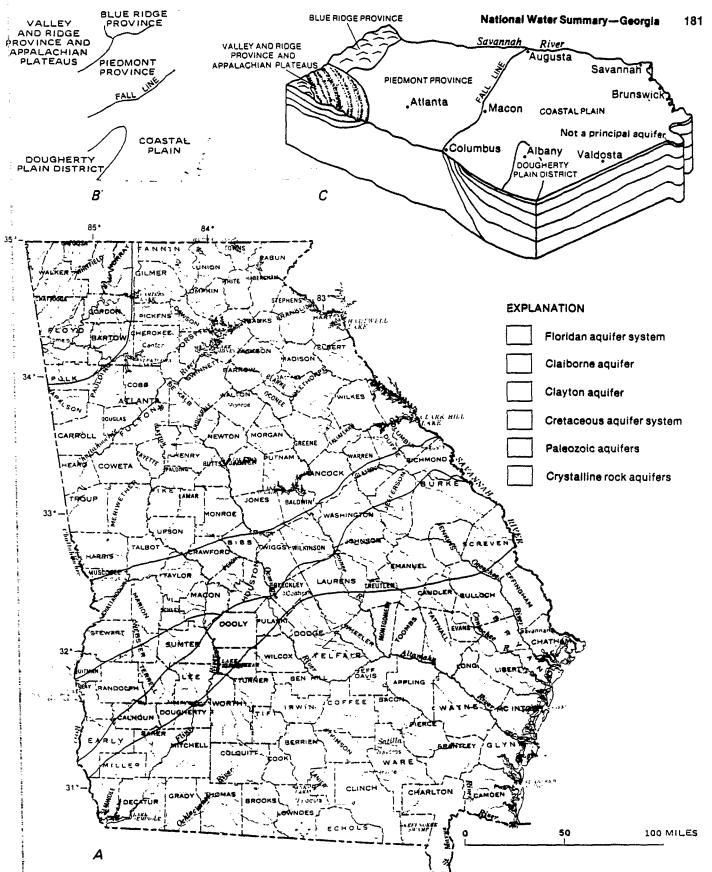


Figure 1. Principal aquifers in Georgia. A, Geographic distribution. B, Physiographic diagram and divisions. C, Block diagram showing principal aquifers and physiographic divisions. (See table 2 for a more detailed description of the aquifers. Sources: A, J. S. Clarke, U.S. Geological Survey, written commun., 1984. B, Fenneman, 1938; Raisz, 1954. C, Modified from Pierce and others, 1984.)

### CLAIBORNE AQUIFER

The Claiborne aquifer is an important source of water in part of southwestern Georgia (fig. 1) and supplied an estimated 36 Mgal/d in 1980, primarily for irrigation (McFadden and Perriello, 1983). Although the Claiborne aquifer yields water suitable for most uses over most of its extent, naturally occurring concentrations of dissolved solids and chloride in the south-central part of the State have been reported as 22,200 and 11,900 mg/L, respectively (Wait, 1960).

### CLAYTON AQUIFER

The Clayton aquifer is an important source of water in southwestern Georgia (fig. 1), where it supplied an estimated 20 Mgal/d in 1980. Most of the withdrawals were for public supply (58 percent) and irrigation (35 percent). With the exception of large concentrations of iron (greater than 0.3 mg/L) in Randolph County, water from the aquifer is suitable for most uses (Clarke and others, 1984).

### CRETACEOUS AQUIFER SYSTEM

The Cretaceous aquifer system is a major source of water in the northern one-third of the Coastal Plain (fig. 1). During 1980, the aquifer system yielded an estimated 128 Mgal/d, primarily for industrial and public-supply use. The aquifer system consists of sand and gravel that locally contain layers of clay and silt which function as confining beds. These confining beds locally separate the aquifer system into two or more aquifers. In southwestern Georgia, the Providence aquifer is part of the Cretaceous aquifer system. Water from the aquifer system is soft (less than 60 mg/L as calcium carbonate), has little dissolved solids (generally less than 100 mg/L), and is of a sodium bicarbonate type that is suitable for most uses. In the center of the area of usage (fig. 1), the iron concentration may be as much as 6.7 mg/L.

### PALEOZOIC AQUIFERS

Water in the Paleozoic aquifers generally is unconfined, and storage is limited mainly to joints, fractures, and solution openings in the bedrock. During 1980, an estimated 33 Mgal/d was withdrawn from the Paleozoic aquifers, primarily for industrial supply. Wells that tap the Paleozoic aquifers yield differing amounts of water, depending on the aquifer used. Dolostone aquifers typically yield 5 to 50 gallons per minute (gal/min), whereas limestone and sandstone aquifers typically yield 1 to 20 gal/min; maximum reported yields from these aquifers are 3,500 and 300 gal/min, respectively. Springs discharge from the limestone and dolostone aquifers at rates of as much as 5,000 gal/min. Where the limestone and dolostone aquifers are near land surface, pumping can contribute to the formation of sinkholes. Water from wells and springs in the Paleozoic aquifers generally is suitable for most uses, although contamination from septic tanks and farm waste has been reported (Cressler and others, 1976).

### CRYSTALLINE ROCK AQUIFERS

Although individual crystalline rock aquifers are not laterally extensive, collectively they yielded an estimated 99 Mgal/d in 1980, primarily for rural supply. Ground-water storage occurs in the regolith and where the rocks have joints, fractures, and other types of secondary openings (Cressler and others, 1983). Crystalline rock aquifers in these areas generally are unconfined and show a pronounced response to rainfall, although deep fracture systems commonly are confined. Water from the aquifers generally is suitable for most uses, and, with the exception of iron (as much as 14 mg/L) and manganese (as much as 1.5 mg/L), constituent concentrations

rarely exceed national drinking-water regulations (U.S. Environmental Protection Agency, 1982a,b). In some densely populated areas, septic-tank effluent has contaminated the aquifers (Cressler and others, 1983).

### GROUND-WATER WITHDRAWALS AND WATER-LEVEL TRENDS

Major areas of ground-water withdrawals and trends in ground-water levels near selected pumping centers are shown in figure 2. With the exception of one center in the Valley and Ridge province (location 1, fig. 2), all major pumping centers are in the Coastal Plain, where aquifers are very productive. The largest pumping center is the Dougherty Plain area where ground-water withdrawal for irrigation exceeds 200 Mgal/d.

The hydrographs shown in figure 2 reflect the responses of aquifers to pumping at selected pumping centers under a variety of hydrologic conditions. In the Floridan aquifer system, large cones of depression have formed at Savannah, Brunswick, Jesup, and St. Marys as a result of pumping for industrial and public supply. At Savannah (location 5, fig 2.), the water level has declined at least 160 feet (ft) since pumping began in the late 1800's (McCollum and Counts, 1964). The hydrograph shows that the water level declined 45 ft from 1954 to 1961 and less than 10 ft from 1961 to 1984. These changes reflect pumping patterns in the area. At Brunswick, the water level in the aquifer system declined 65 ft from predevelopment to 1964 (Wait and Gregg, 1973). The decline continued until 1982 (location 7, fig. 2), then rose about 10 ft as the result of a significant decrease in pumping by a major water user. Near Valdosta (location 9, fig. 2), the water level in the Floridan aquifer system responds to changes in recharge derived from streamflow and to local pumping. The hydrograph shows a moderate long-term response to changing recharge rates and to pumping. Pumpage from the Floridan aquifer system in the Dougherty Plain area (location 11, fig. 2) is primarily for seasonal irrigation which, averaged over the year, exceeded 200 Mgal/d in 1980. In this area, pumpage is scattered widely. Some recharge to the Floridan aquifer system occurs locally. As a result, water-levels recover annually.

In the Albany area (location 10, fig. 2), water is withdrawn from the Tertiary Floridan aquifer system, the Claiborne aquifer, and the Clayton aquifer and the Cretaceous Providence aquifer. Water-level declines of more than 100 ft have occurred in the Clayton and Providence aquifers (Clarke and others, 1983, 1984). The water level in the Clayton aquifer near withdrawal location 10 (fig. 2) generally declined from 1958 to 1984 in response to increased pumping for public supply and agriculture.

The water level in the Cretaceous aquifer system has declined more than 50 ft since 1950 in areas of heavy pumping for public supply and industrial use. However, in the Huber-Warner Robins area (location 4, fig. 2), the water level has not declined significantly from 1975 to 1984 despite a slight increase in ground-water withdrawals during that period.

### **GROUND-WATER MANAGEMENT**

Georgia has a comprehensive set of laws governing the quality and use of ground water. The Ground-Water Use Act of 1972 provided for the permitting of withdrawals for industrial and municipal use that exceed 100,000 gallons per day (gal/d) and authorized the Georgia Environmental Protection Division to issue regulations about reporting, timing of withdrawals, abatement of saltwater encroachment, well depth and spacing, and pumping levels or rates. Amendments to the

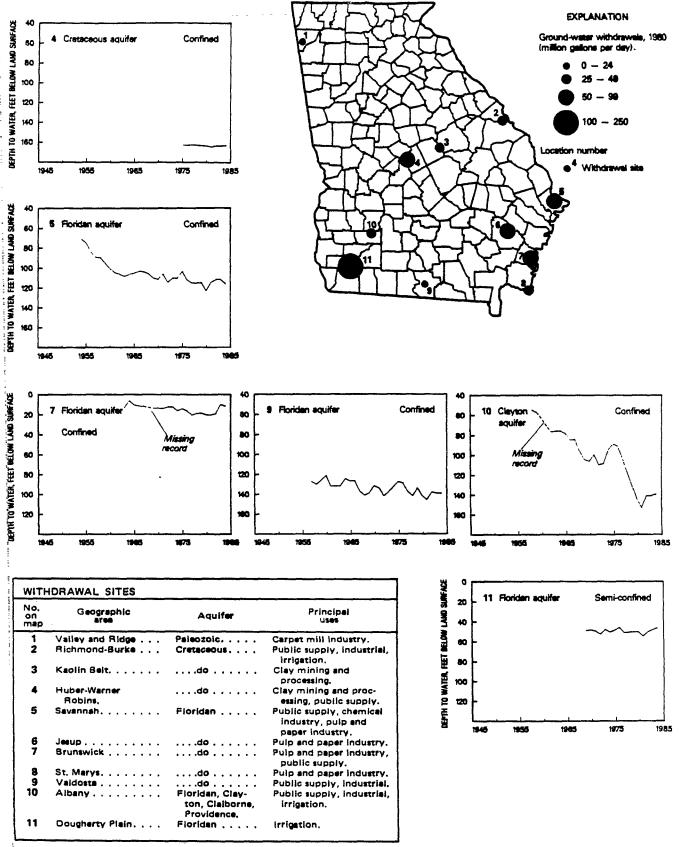


Figure 2. Areal distribution of major ground-water withdrawals and graphs of annual greatest depth to water in selected wells in Georgia. (Sources: Withdrawal data from Pierce and others, 1982; water-level data from U.S. Geological Survey files.)

Act in 1982 required that irrigation withdrawals in excess of 100,000 gal/d be reported to the State, although permits for that use still are not required. The Oil and Gas Deep Drilling Act of 1975 authorized the Board of Natural Resources to regulate drilling and use of oil, gas, and other types of wells for the purpose of protecting fresh ground-water supplies. The Georgia Safe Drinking Water Act of 1977 provides for regulation of water quality in public-water systems.

The Georgia Environmental Protection Division (EPD) and its branches are responsible for enforcing all surfacewater, ground-water, and water-quality laws. In 1984, a ground-water management plan for Georgia was implemented to identify key activities performed by EPD management, to control and regulate potential pollution sources, and to develop a monitoring program to provide water-quality and water quantity data on the State's principal aquifers. The Water Resources Management Branch issues permits for ground-water withdrawals that exceed 100,000 gal/d by industrial and municipal users and oversees the reporting of ground-water use for irrigation in excess of 100,000 gal/d. The Ground-Water Program of the Water Protection Branch provides for the permitting of operators of public water-supply systems that use ground water and monitors water quality for compliance with drinking-water standards. The Industrial and Hazardous Waste Management Program of the Land Protection Branch monitors ground water at hazardous waste sites. The Geologic Survey Branch provides technical support for the other branches and has a cooperative program with the U.S. Geological Survey that provides much of the basic data and interpretive information needed to manage the quality and quantity of ground water in the State.

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Prepared by John S. Clarke and Robert R. Pierce

For further information contact District Chief, U.S. Geological Survey, 6481 Peachtree Industrial Blvd., Suite B, Doraville, GA 30360

## GROUND WATER IN THE GREATER ATLANTA REGION, GEORGIA

by

C. W. Cressler, C. J. Thurmond, and W. G. Hester

Prepared in cooperation with the U.S. Geological Survey

Department of Natural Resources

Environmental Protection Division

Georgia Geologic Survey

In table 7, which lists chemical analyses of well water, some wells retain numbers used in previous reports.

### WATER-BEARING UNITS AND THEIR HYDROLOGIC PROPERTIES

The part of the GAR included in this study lies wholly within the Piedmont physiographic province (Clark and Zisa, 1976; Fenneman, 1938). The area is underlain by a complex of metamorphic and igneous rocks that have been divided by various workers into more than 50 named formations and unnamed mappable units. Individual rock units range in thickness from less than 10 ft to possibly more than 10,000 ft.

Regional stresses have warped the rocks into complex folds and refolded folds, and the sequence has been injected by igneous plutons and dikes and broken by faults. Erosion of these folded and faulted rocks produced the complex outcrop patterns that exist today. The large number of rock types in the area

and their varied outcrop patterns greatly complicate the occurrence and availability of ground water in the area. Nevertheless, many of the more than 50 named formations and unnamed mappable units in the GAR are made up of rocks that have similar physical properties and yield water of comparable quantity and chemical quality. Thus, for convenience, the rocks in the report area have been grouped into nine principal water-bearing units and assigned letter designations. The areal distribution of the waterbearing units and their lithologies are shown on plate 1. Data on wells in the water-bearing units are summarized in tables 1-3.

### OCCURRENCE AND AVAILABILITY OF GROUND WATER

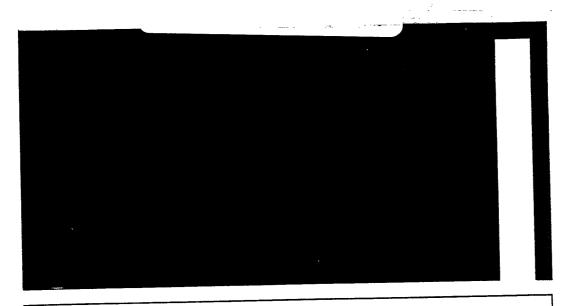
Ground water in the GAR occupies joints, fractures, and other secondary openings in bedrock and pore spaces in the overlying mantle of residual material. Water recharges the underground

Table 1.--Summary of well data for the Greater Atlanta Region

		Y	ield	De	pth	Casing depth		Topography (percent of wells in each setting)								
Water- bearing unit	Number of wells		L/min) Average	( f	t) Average		t) Average	Slope	Broad lowlands	Uplands- ridge crests	Draw, hollow	Stream or lake	Saddle	Other		
A Amphibolite- gneiss- schist	385	20 <b>-</b> 275	56	35- 2,175	294	0- 200	60	22	35	22	4	11	2	4		
B Granitic gneiss	166	20 <del>-</del> 348	72	40 <del>-</del> 825	271	3 <del>-</del> 266	54	33	45	2	14	6	0	o		
C Schist	185	20 <del>-</del> 150	47	67 <b>-</b> 700	195	4 144	53	19	19	27	20	11	4	0		
D Biotite gneiss	70	20 <del>-</del> 351	56	82 <del>-</del> 710	270	7 <del>-</del> 140	56	20	27	36	6	11	0	0		
E Mafic	32	20 <del>-</del> 471	79	67 <b>-</b> 386	191	8- 116	46	17	35	28	3	17	0	0		
F Granite	43	20 <del>-</del> 150	43	43- 422	192	11-	57	30	30	15	15	10	0	0		
G Cataclastic	55	20 <del>-</del> 225	74	110 <del>-</del> 800	323	8- 207	84	4	75	15	4	2	0	0		
H Quartzite	12	20 <del>-</del> 200	72	122 <del>-</del> 500	297	30- 85	58	45	9	27	18	0	0	0		
J Carbonate	5	31- 150	76	240- 505	376	28 <del>-</del> 314	138	0	100	o	0	0	0	0		

Table 9. - Record of wells in the Greater Atlanta Region -- Continued

											Water bel land e	ow
Well No-	Owner	Water- bearing unit	Latitude and longitude	Yield (gal/min)	Depth (ft)	Casi depth (ft)	diam.	Date drilled	Driller	Elevation (ft)	Static head (ft)	Pumping head (ft)
DeKalb	County					,						
1 <sup>°</sup> 1DD1	Jake Patterson (Dairy) 2193 Tilson Rd. Atlanta	A	33*43*54" 84*15*14"	70	197		8		-	910	-	-
1 1 DD 2	J. L. Porter (Dairy) McAfee at Porter Rd. Atlanta	A	33°43°54" 84°16°12"	60	103	_	6			940	33	1
11003	Harry R. Dunivin 2505 Columbia Dr. Decatur	A	33°42'54" 84°15'14"	25	500	31	6	3/56	Virginia	950	-	
11EE1	Central Paving, Inc. 1239 North Ave., NW Atlanta	A	33°46'18" 84°20,51"	26	470	8	_	1/61	do•	970	6	150
1 1EE2	Ga. Mental Health Inst. (Asa Candler estate) 1313 Briarcliff Rd. Decatur	A	33°46'55" 84°20'45"	79	680	40	6	2/35	Hamilton & Sulliv	an 1,000	630	
1 IEE3	do•	A	33°46'57" 84°20'37"	225	980	40	10	1932	do.	1,000	843	_
1 LEE5	D. L. Stokes (now Lewis F. Nickel) 32 Berkeley Rd. Avondale Estates	A	33°46°22" 84°15'57"	50	183	41	6	4/46	Virginia	1,060	62	100
1 iee6	Commercial Properties Century Center 3051 Clairmont Rd. Atlanta	В	33°50'43" 84°18'50"	100	260	28	6	1970	Ward	850		
1 LEE7	WSB Radio Clarkston	В	33°50'40" 84°15'06"	70	250	-			-	1,050	20	-
líEE8	Richard F. Sams (now Dietz) 1200 Montreal Rd. Clarkston	A	33°49'10" 84°15'12"	225	350	27	6	7/55	Virginia	1,000	10	200
11FF1	Morrison's Flower Farm 3086 Osborne Rd. (Atl.) Briarwood	D	33°52'45" 84°20'36"	37	225	38	6	7/77	do•	1,010		-
11FF2	John D. Arndt 1448 Harts Mill Rd.,NE Atlanta	D	33°54'13" 84°19'46"	25	125	30	6	7/70	do•	880	30	125
11FF3	Lymburner Nursery (Zayers here now) 4570 Buford Highway Chamblee	В	33°53'20" 84°17'14"	165	375	53	6	5/54	do•	995	_	
12DD8	DeKalb Co. Line School Linecrest Rd. Ellenwood	A	33*39'27" 84*14'41"	28	300	40	6	3/57	do•	860		
12DD9	C. H. Shumate (his daughter) 4990 Covington Hwy. Decatur	В	33°44'02" 84 <b>°</b> 12'36"	42	144	44	6	11/56	do•	940		
12DD10	John M. Jackson, Jr. 6533 Rock Springs Rd. Lithonía	В	33°41'20" 84°08'15"	54	211	55	6	8/65	do•	820	30	40



### R. Allan Freeze

Department of Geological Sciences University of British Columbia Vancouver, British Columbia

### John A. Cherry

Department of Earth Sciences University of Waterloo Waterloo, Ontario

### GROUNDWATER

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Table 2.2 Range of Values of Hydraulic Conductivity and Permeability

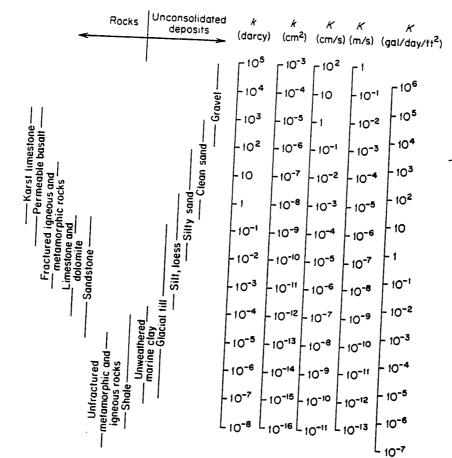
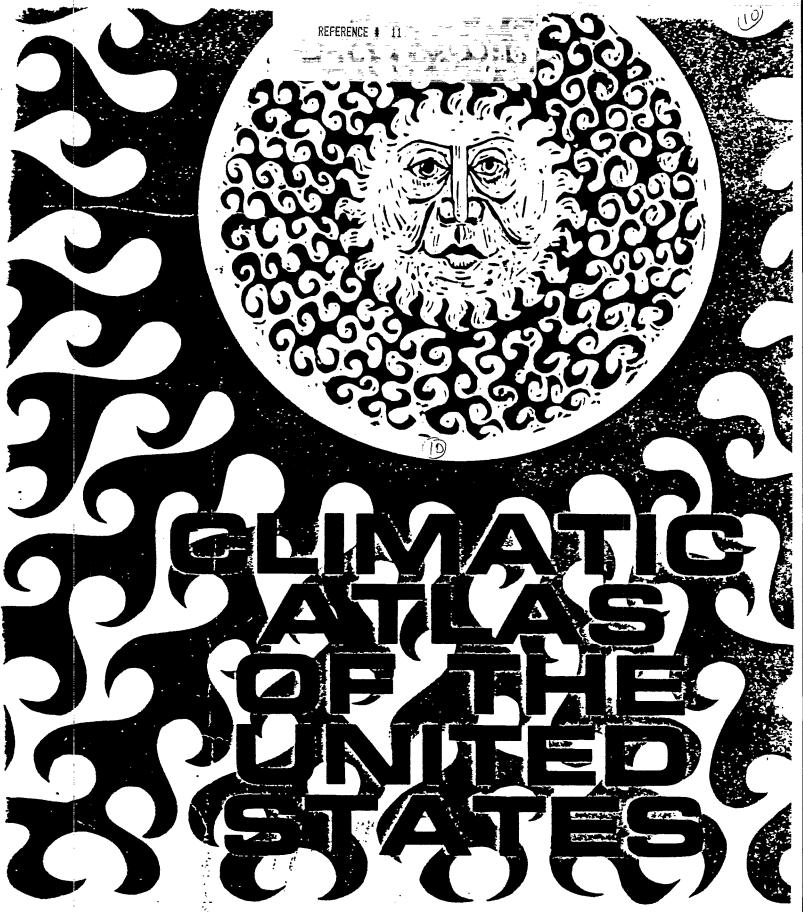


Table 2.3 Conversion Factors for Permeability and Hydraulic Conductivity Units

		-yaraane con	auctivity Units				
	Permeability, k*		Ну	draulic conducti	vity. K		
 cm²	ft²	darcy	m/s	ft/s	U.S. gal/day/ft2		
1 9.29 × 10 <sup>2</sup> 9.87 × 10 <sup>-9</sup> 1.02 × 10 <sup>-3</sup> 3.11 × 10 <sup>-4</sup> ft <sup>2</sup> 5.42 × 10 <sup>-10</sup>	1.08 × 10 <sup>-3</sup> 1 1.06 × 10 <sup>-11</sup> 1.10 × 10 <sup>-6</sup> 3.35 × 10 <sup>-7</sup> 5.83 × 10 <sup>-13</sup>	1.01 × 108 9.42 × 1010 1 1.04 × 105 3.15 × 104 5.49 × 10-2	9.80 × 10 <sup>2</sup> 9.11 × 10 <sup>5</sup> 9.66 × 10 <sup>-6</sup> 1 3.05 × 10 <sup>-1</sup> 4.72 × 10 <sup>-7</sup>	3.22 × 10 <sup>3</sup> 2.99 × 10 <sup>6</sup> 3.17 × 10 <sup>-5</sup> 3.28 1 1.55 × 10 <sup>-6</sup>	1.85 × 109 1.71 × 10 <sup>12</sup> 1.82 × 10 <sup>1</sup> 2.12 × 10 <sup>6</sup> 6.46 × 10 <sup>5</sup>		

<sup>\*</sup>To obtain k in ft<sup>2</sup>, multiply k in cm<sup>2</sup> by  $1.08 \times 10^{-3}$ .

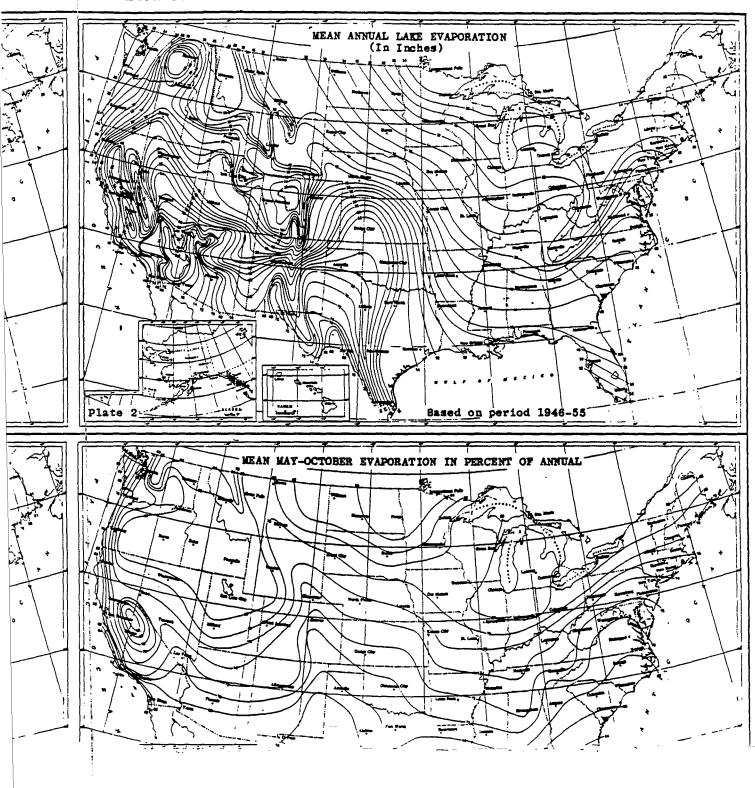


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### TECHNICAL PAPER NO. 40

### RAINFALL FREQUENCY ATLAS OF THE UNITED STATES

### for Durations from 30 Minutes to 24 Hours and Return Periods from 1 to 100 Years

Prepared by
DAVID M. HERSHFIELD

Cooperative Studies Section, Hydrologic Services Division

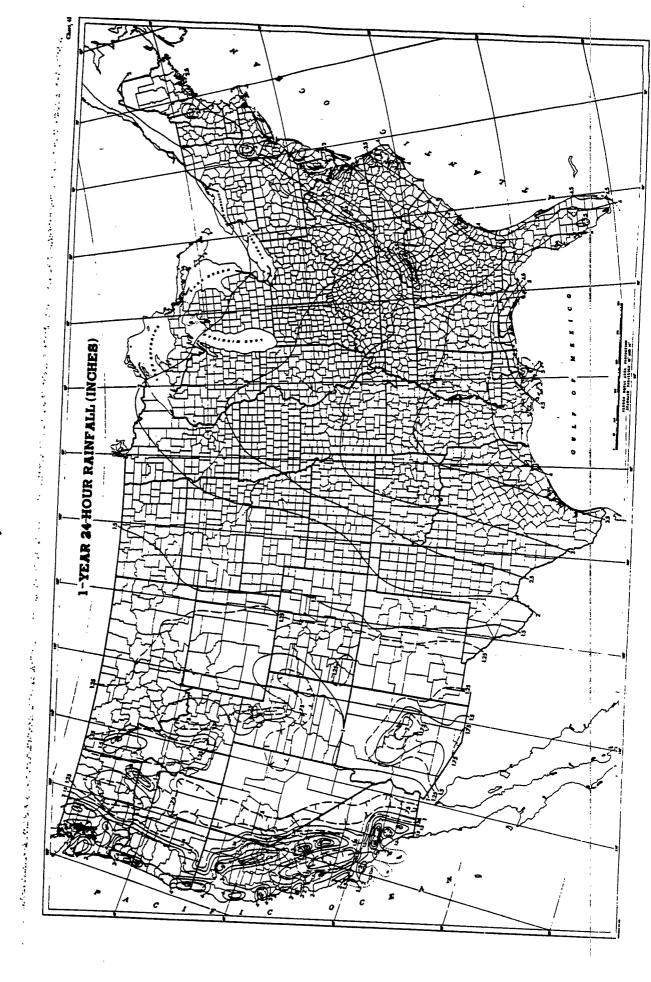
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### LOGBOOK REQUIREMENTS REVISED - JANUARY 6, 1988

### NOTE: ALL LANGUAGE SHOULD BE FACTUAL AND OBJECTIVE

- Record on front cover of the Logbook:
   TDD No., Site Name, Site Location, Project Manager
- 2. All entries are made using ink.
- 3. Provide statement referencing Equipment Location Log.
- Statement of Work Plan, Study Plan, and Safety Plan discussion and distribution to field team with team member signatures.
- Sign and date each page. Project Manager is to review and sign off on each logbook daily.
- A single line is drawn through error. Each correction is dated/initialed.
- 7. Report weather conditions. Provide general site description and remarks.
- 8. Document all changes from project planning documents.
- 9. Provide a site sketch with sample locations.
- 10. Document all calibration and preoperational checks of equipment.
- 11. Provide reference to Sampling Field Sheets for detailed sampling information.
- Maintain photo log by completing the stamped information at the end of the logbook.
- If no site representative is on hand to accept the receipt for samples an entry to that effect must be placed in the logbook.

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NUS CORPORATION AND SUBSIDIARIES

REFERENCE \$ 14

TELECON NOTE

CONTROL NO.

DATE: 9-7-89

TIME: 10:00 am

DISTRIBUTION:

BETWEEN: Mr. Earl

OF: Atlanta Water

PHONE: (404) 658-6500

AND: Jelaine Tinsley, NUS Corporation

DISCUSSION:

Mr. Earl told me that the Atlanta Water Department serves metropolitan Atlanta. He said the city water is available to everyone in the area. He said that the city get its water from the Chattahoochee. The intake system is located at 2630 Ridgewood Road. He also said the system serves over 1 million people.

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### LEVEL

NOTEBOOK NO. 311

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### LOGBOOK REQUIREMENTS REVISED - NOVEMBER 29, 1988

### NOTE: ALL LANGUAGE SHOULD BE FACTUAL AND OBJECTIVE

- Record on front cover of the Logbook: TDD No., Site Name,
   Site Location, Project Manager
- All entries are made using ink. Draw a single line though errors. Initial and date corrections.
- Statement of Work Plan, Study Plan, and Safety Plan discussion and distribution to field team with team member signatures.
- Sign and date each page. Project Manager is to review and sign off on each logbook daily.
- Document all calibration and pre-operational checks of equipment. Provide serial numbers of equipment used onsite.
- 7. Provide reference to Sampling Field Sheets for detailed sampling information.
- Describe sampling locations <u>in detail</u> and document all changes from project planning documents.
- Provide a site sketch with sample locations and photo locations.
- Maintain photo log by completing the stamped information at the end of the logbook.
- If no site representative is on hand to accept the receipt for samples an entry to that effect must be placed in the logbook.
- 12. Record I.D. numbers of COC and receipt for sample forms used. Also record numbers of destroyed documents.
- 13. Complete SMO information in the space provided.

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### **OVERSIZED**

### **DOCUMENT**

## Water Availability & Use CHATTAHOOCHEE RIVER BASIN

Georgia Department of Natural Resources Environmental Protection Division

# WATER AVAILABILITY AND USE CHATTAHOOCHEE RIVER BASIN GEORGIA 1984

FACILITY I.D. NUMBER	FACILITY NAME	COUNTY	СІТҮ	STREAM	RIVER MILE	PLANT DISCHARGE (MGD)	PERMITTED WITHDRAWAL (MGD)	DRAINAGE AREA (SQ.MI.)	7Q10 (CFS)	LEVEL OF SERVICE (1)
2-010 (MGW)	City of Sugar Hill MWS	Cwinnett	Sugar Hill	Richland Creek	5.8/E.0.2		0.14	N/A	N/A	:
2-015(ISW)	Bona Allen, Inc.	Gwinnett	Buford	Suwanee Creek	14.7		0.28	5.8	1.0	<u>&gt;</u> 99*
2-020(ISD)	Bona Allen, Inc.	Owinnett	Buford	Suwanee Creek	14.6	0.14		5.8	0.1	
2-030 (MSD)	City of Buford Westside WPCP	Cwinnett	Buford	Suwanee Creek	7.9	0.25		3.23	0.54	1
2-040 (MSD)	City of Buford Southside WPCP	Gwinnett	Buford	Suwanee Creek	5.9	1.0		14.0		
2-050 (MSW)	Gwinnett County Water Auth.	Owinnett	Lawrenceville	Chat. River	338.0		12.0	1100	670	≥99*
2-060 (MSW)	DeKalb County Water & Sewer Dept.	DeKalb	Decatur	Chat. River	325.5		96.0	1210	720	<u>&gt;</u> 99*
2-070 (MSD)	Crooked Creek WPCP	Gwinnett	Norcross	Crooked Creek	1.7	2.0				
2-080 (MSD)	Johns Creek WPCP	Fulton	Roswell	Chat. River	324.0	4.0		1214	700	
2-090 (MSD)	City of Cumming WPCP	Forsyth	Cumming	Big Creek	24.2	0.25		0.49	0.04	
2-095 (MSW)	City of Roswell MWS	Fulton	Roswell	Big Creek	2.0		0.62	96.4	7.9	<u>&gt;</u> 99*
2-100(ISW)	Horseshoe Bend Prop., Inc.	Fulton	Roswell	Chat. River	315.6		0.25	1250	760	<u>≥</u> 90*
2-110(MSD)	Big Creek WPCP	Fulton	Roswell	Chat. River	315	6.0		1255	740	
2-120 (MSW)	Cobb Co. Marietta Water Auth.	Cobb	Acworth	Chat. River	310		48	1390	810	<u>&gt;</u> 99*
2-130 (MSW)	City of Atlanta MWS	Fulton	Atlanta	Chat. River	299.6		160	1460	900	86-99
2-140 (MSD)	Chattahoochee WPCP	Cobb	Smyrna	Chat. River	299.1	20		1461	781	Ī
2-150 (MSD)	R.M. Clayton WPCP	Fulton	Atlanta	Chat. River	298.8	120		1462	701	
2~160(ISW)	Ga. Power Plant McDonough	Cobb	Atlanta	Chat. River	298.6		394	1600	915	50-58
2-170(ISW)	Ga. Power Plant Atkinson	Cobb	Atlanta	Chat. River	298.6		432	1600	915	50-58
2-180(ISD)	Ga. Power Plant McDonough Atkinson	Cobb	Atlanta	Chat. River	298.0	818		1600	855	
2-190 (MSD)	South Cobb WPCP	Cobb	Mableton	Chat. River	294.5	24		1650	943	
2-200(IGW)	Anaconda Aluminum Co.	Fulton	Atlanta	Chat. River	293.0		0.33	N/A	N/A	
* Calc	ulated without minimum	streamflow	requirement							

CHATTAHOOCHEE RIVER WATER

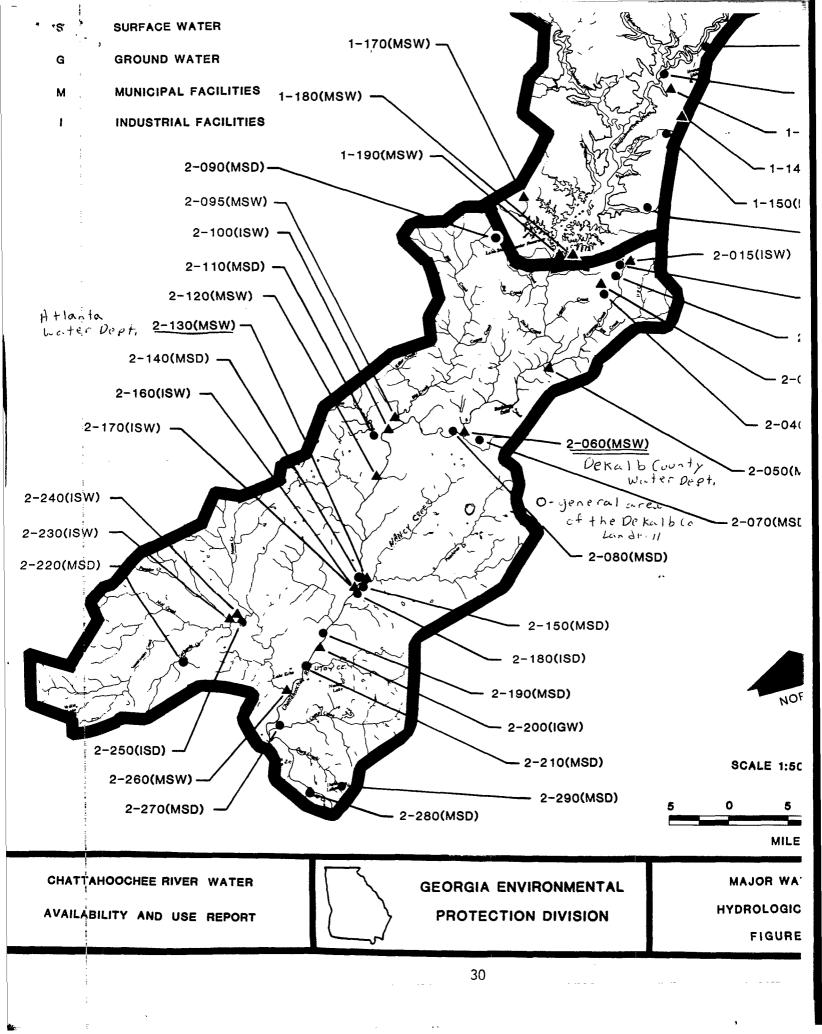
AVAILABILITY AND USE REPORT



GEORGIA ENVIRONMENTAL
PROTECTION DIVISION

MAJOR FACILITIES IN HYDROLOGIC UNIT #2

FIGURE 6



ISTRIBUTION:  Ile obb County, Georgia ekalb County, Georgia  ETWEEN: Kris Martin  OF: GA Dept. of Natural Resources  PHONE: (404) 656-4817  IND: Geoffrey Carton, NUS Corporation  ISCUSSION:  Il streams in both counties have fish life. There is recreational fishing on most streams in both Dekalb and Counties. The exceptions would be the small headwaters. There is commercial fishing on major reservoirs a vers (i.e. South River and Yellow River). There is no commercial fishing on the Chattahoochee River as it esignated a secondary trout stream.	NUS CORPORATION AND	SUBSIDIARIES	TELECON NOTE
ISTRIBUTION:  Ile obb County, Georgia ekalb County, Georgia  ETWEEN: Kris Martin  OF: GA Dept. of Natural Resources  PHONE: (4-04) 656-4817  IND: Geoffrey Carton, NUS Corporation  ISCUSSION:  Ill streams in both counties have fish life. There is recreational fishing on most streams in both Dekalb and Counties. The exceptions would be the small headwaters. There is commercial fishing on major reservoirs a vers (i.e. South River and Yellow River). There is no commercial fishing on the Chattahoochee River as it esignated a secondary trout stream.		Reference # 18	
ekalb County, Georgia  ETWEEN: Kris Martin  OF: GA Dept. of Natural Resources  PHONE: (404) 656-4817  IND: Geoffrey Carton, NUS Corporation  ISCUSSION:  Il streams in both counties have fish life. There is recreational fishing on most streams in both Dekalb and Counties. The exceptions would be the small headwaters. There is commercial fishing on major reservoirs a vers (i.e. South River and Yellow River). There is no commercial fishing on the Chattahoochee River as it esignated a secondary trout stream.	CONTROL NO.	DATE: February 8, 1989	TIME: 1420
ekalb County, Georgia  ETWEEN: Kris Martin  OF: GA Dept. of Natural Resources  PHONE: (4-04) 656-4817  IND: Geoffrey Carton, NUS Corporation  ISCUSSION:  Il streams in both counties have fish life. There is recreational fishing on most streams in both Dekalb and Counties. The exceptions would be the small headwaters. There is commercial fishing on major reservoirs a vers (i.e. South River and Yellow River). There is no commercial fishing on the Chattahoochee River as it esignated a secondary trout stream.	DISTRIBUTION:		
ISCUSSION:  II streams in both counties have fish life. There is recreational fishing on most streams in both Dekalb and Counties. The exceptions would be the small headwaters. There is commercial fishing on major reservoirs a vers (i.e. South River and Yellow River). There is no commercial fishing on the Chattahoochee River as it esignated a secondary trout stream.	File Cobb County, Georgia Dekalb County, Georgia		
Il streams in both counties have fish life. There is recreational fishing on most streams in both Dekalb and Counties. The exceptions would be the small headwaters. There is commercial fishing on major reservoirs avers (i.e. South River and Yellow River). There is no commercial fishing on the Chattahoochee River as it esignated a secondary trout stream.	BETWEEN: Kris Martin	OF: GA Dept. of Natural Res	ources PHONE: (404) 656-4817
Il streams in both counties have fish life. There is recreational fishing on most streams in both Dekalb and Counties. The exceptions would be the small headwaters. There is commercial fishing on major reservoirs a vers (i.e. South River and Yellow River). There is no commercial fishing on the Chattahoochee River as it estignated a secondary trout stream.	AND: Geoffrey Carton, NUS Co	orporation	
ounties. The exceptions would be the small headwaters. There is commercial fishing on major reservoirs a vers (i.e. South River and Yellow River). There is no commercial fishing on the Chattahoochee River as it esignated a secondary trout stream.	DISCUSSION:		
CTION ITEMS:	rivers (i.e. South River and Ye designated a secondary trout s	flow River). There is no commercial	fishing on the Chattahoochee River as it is
	ACTION ITEMS:		
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NUS CORPORATION					TELECON	NOTE
CONTROL NO:	DATE:	-//-89	Til	ME: ///O	0 am	
DISTRIBUTION:						
	·					
BETWEEN: Mark Wynn		OF: GA DA Nati R	ept. of Lesources	PHONE:	1656-4	1905
and: Greg Thomas						(NUS)
Nancy Cre	ek is	used	Gr	recra	fional	
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ACTION ITEMS:						
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### ENDANGERED AND THREATENED SPECIES



U.S. FISH AND WILDLIFE SERVICE
REGION 4 - ATLANTA

### Federally Listed Species by State

### GEORGIA

(E=Endangered; T=Threatened; CH=Critical Habitat determined)

Mamma 1 s	General Distribution
Bat, gray (Myotis grisescens) - E Bat, Indiana (Myotis sodalis) - E Manatee, West Indian (Trichechus manatus) - E Panther, Florida (Felis concolor coryi) - E Whale, finback (Balaenoptera physalus) - E Whale, humpback (Megaptera novaeangliae) - E Whale, right (Eubalaena glacialis) - E Whale, sei (Balaenoptera borealis) - E Whale, sperm (Physeter catodon) - E	Northwest, West Extreme Northwest Coastal waters Entire state Coastal waters Coastal waters Coastal waters Coastal waters Coastal waters Coastal waters
Birds	
Eagle, bald ( <u>Haliaeetus leucocephalus</u> ) - E	Entire state ,
(Falco peregrinus anatum) - E Falcon, Arctic peregrine	North
(Falco peregrinus tundrius) - T Plover, piping (Charadrius melodus) - T	Coast, Northwest Coast
Stork, wood (Mycteria americana) - E Warbler, Bachman's (Vermivora bachmanii) - E	Southeastern swamps Entire state
Warbler, Kirtland's (Dendroica kirtlandii) - E Woodpecker, ivory-billed	Coast
(Campephilus principalis) - E	South, Southwest
Woodpecker, red-cockaded (Picoides (=Dendrocopos) borealis) - E	Entire state
Reptiles	
Alligator, American (Alligator mississippiensis) - T(S/A)*	Coastal plain
Snake, eastern indigo (Drymarchon corais couperi) - T	Southeast

\*Alligators are biologically neither endangered nor threatened. For law enforcement purposes they are classified as "Threatened due to Similarity of Appearance." Alligator hunting is regulated in accordance with State law.

### State Lists 6/87

### GEORGIA (cont'd)

### General Distribution

Turtle, Kemp's (Atlantic) ridley (Lepidochelys kempii) - E Turtle, green (Chelonia mydas) - T Turtle, hawksbill Coastal waters (Eretmochelys imbricata) - E Turtle, leatherback (Dermochelys coriacea) - E Turtle, loggerhead (Caretta caretta) - T

Coastal waters Coastal waters

Coastal waters Coastal waters

### Fishes

Darter, amber (Percina antesella) - E,CH Darter, snail (Percina tanasi) - T Logperch, Conasauga (Percina jenkinsi) - E,CH Sturgeon, shortnose (Acipenser brevirostrum) - E

Conasauga R., Murray County S. Chickamauga Cr., Catoosa County

Conasauga R., Murray County

Coastal . rivers

### Plants

Baptisia arachnifera (hairy rattleweed) - E Isotria medeoloides (small whorled pogonia) - E

Lindera melissifolia (pondberry) - E Oxypolis canbyi (Canby's dropwort) - E Sarracenia oreophila (green pitcher plant)- E Scutellaria montana (large-flowered skullcap) - E

Torreya taxifolia (Florida torreya) - E Trillium persistens (persistent trillium) - E

Wayne, Brantley Counties

Rabun County

Wheeler County Burke, Lee, Sumter Counties Towns County

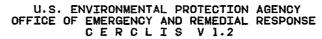
Floyd, Gordon, Walker Counties

Decatur County

Tallulah-Tugaloo River system, Rabun and Habersham Counties

### **CERCLA ELIGIBILITY QUESTIONNAIRE**

	Name: Moreland McKesson Co.		
Cit	v: <u>Chamblee</u>	State: <u>Georgia</u>	
EPA	AID Number: <u>GAD 072 472 707</u>	· · · · · · · · · · · · · · · · · · ·	
I.	CERCLA ELIGIBILITY	<u>Yes</u>	<u>No</u>
	Did the facility cease operations prior to November 19, 1986	)?	~
	If answer YES, STOP, facility is probably a CERCLA site.		
	If answer NO, Continue to Part II.		
II.	RCRA ELIGIBILITY	<u>Yes</u>	<u>No</u>
	Did the facility file a RCRA Part A application? If YES:	V	
	<ol> <li>Does the facility currently have interim status?</li> <li>Did the facility withdraw its Part A application?</li> <li>Is the facility a known or possible protective filer? (facility filed in error)</li> </ol>	<u>~</u> ~	<u>~</u>
	4. Type of facility:  Generator Transporter Recy TSD (Treatment/Storage/Disposal)	ycler	
	Does the facility have a RCRA operating or post closure per	nit?	~
	Is the facility a late (after 11/19/80) or non-filer that has bee identified by the EPA or the State? (facility did not know it needed to file under RCRA)	n 	~
	If all answers to questions in Part II are NO, STOP, the facilities a CERCLA eligible site.	y	
	If answer to #2 or #3 is YES, STOP, the facility is a CERCLA eligible site.		-
	If answer #2 and #3 are NO and any OTHER answer is YES, s is RCRA, continue to Part III.	iite	
Ш.	RCRA SITES ELIGIBLE FOR NPL	<u>Yes</u>	<u>No</u>
	Has the facility owner filed for bankruptcy under federal or state laws?		<u>~</u>
	Has the facility lost RCRA authorization to operate or shows probable unwillingness to carry out corrective action?	n ——	<u>~</u>
-	Is the facility a TSD that converted to a generator, transport or recycler facility after November 19, 1980?	er 🗸	



PAGE: 97 RUN DATE: 04/24/87

RUN TIME: 15:36:17

### M.2 - SITE MAINTENANCE FORM

		* ACTION:	
EPA ID : GAD072472707			*
SITE NAME: MORELAND MCKESSON CO	SOURCE: H	*	
STREET : 2180 IRWINDALE RD	CONG DIST: 04	*	
CITY : CHAMBLEE	ZIP: 30366 * _		*
CNTY NAME: DEKALB	CNTY CODE : 089		
LATITUDE : 33/53/12.0	LONGITUDE : 084/17/54.0	*/	
LL-SOURCE: R	LL-ACCURACY:	* _	_
SMSA : 0520	HYDRO UNIT: 03130001	*·	***************************************
INVENTORY IND: Y REMEDIAL IND: Y R	EMOVAL IND: N FED FAC IND: N	*	<b>_</b>
NPL IND: N NPL LISTING DATE:	NPL DELISTING DATE:	*/	_/_
SITE/SPILL IDS:	•	*	
RPM NAME: UNASSIGNED	RPM PHONE: 404-347-2234	*	
SITE CLASSIFICATION:	SITE APPROACH:	*	
DIOXIN TIER: REG FLD	1: REG FLD2: 2	*	***************************************
RESP TERM: PENDING ( ) NO FURT	HER ACTION ( )	* PENDING (_)	NO FURTHER ACTION (_)
ENF DISP: NO VIABLE RESP PARTY ( ) ENFORCED RESPONSE ( )		*	·
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### U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L I S V 1.2

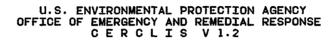
PAGE: 98 RUN DATE: 04/24/87 RUN TIME: 15:36:17

### M.2 - PROGRAM MAINTENANCE FORM

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ITE:	MORELAND I	MCKESS	ON CO					
PA ID:	GAD072472	707	PROGRAM CODE: H01	PROGRAM	TYPE:	*	AND TO THE TOTAL CONTRACTOR OF THE PROPERTY OF	*
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PAGE: 99 RUN DATE: 04/24/87 RUN TIME: 15:36:17

### M.2 - EVENT MAINTENANCE FORM

			* ACTION: _		
SITE: MOREL PROGRAM: SITE	LAND MCKESSON CO EVALUATION				
EPA ID: GADO7	72472707 PROGRAM CODE: H01	EVENT TYPE: DS1			
FMS CODE:	EVENT QUALIFIER :	EVENT LEAD: E	*		
EVENT NAME:	DISCOVERY	STATUS:	*		_
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### U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L I S V 1.2

PAGE: 100 RUN DATE: 04/24/87 RUN TIME: 15:36:17

### M.2 - EVENT MAINTENANCE FORM

			* ACTION: _		
SITE: MOREL PROGRAM: SITE	AND MCKESSON CO Evaluation				
EPA ID: GADO7	2472707 PROGRAM CODE: HOL	EVENT TYPE: PA1			
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#### U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L I S V 1.2

PAGE: 101 RUN DATE: 04/24/87 RUN TIME: 15:36:17

M.2 - COMMENT MAINTENANCE FORM

SITE: MORELAND MCKESSON CO

EPA ID: GAD072472707

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NO COMMENT

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#### U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L A

PAGE: 491 RUN DATE: 85/10/18 RUN TIME: 08:39:07

### M.2 - SITE MAINTENANCE FORM

			* ACTION: _
EPA ID:	GAD072472707		
SITE NAME:	MORELAND MCKESSON CO	SOURCE: H	*
STREET:	2180 IRWINDALE RD	CONG DIST: 04	
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CNTY NAME:	DEKALB	CNTY CODE: 089	*
LATITUDE:	33/53/12.0 LONGITUDE: 084/17/	754.0	*/
SMSA:	0520 HYDRO UNIT: 0313000	01	* management managemen
INVENTORY 3	IND: Y REMEDIAL IND: Y REMOVAL	IND: N FED FAC IND: N	*
NPL IND: N	NPL LISTING DATE: NPL DE	LISTING DATE:	*/
APPROACH:	SITE CLASS:		* Manufacturine substitute
SITE/SPILL	<b>IDS:</b>		* <u></u>
RPM NAME:	RPM PHONE:	<b>100</b> 100	*
DIOXIN TIER	REG FLD1: REG FL	D2: 2	*
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REGION: 04 STATE: GA

#### U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L A

PAGE: 492 RUN DATE: 85/10/18 RUN TIME: 08:39:07

#### M.2 - PROGRAM MAINTENANCE FORM

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#### U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L A

PAGE: 493 RUN DATE: 85/10/18 RUN TIME: 08:39:07

### M.2 - EVENT MAINTENANCE FORM

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EVENT NAME:	DISCOVERY	STATUS:	*		
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#### U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L A

PAGE: 494 RUN DATE: 85/10/18 RUN TIME: 08:39:07

M.2 - EVEL MAINTENANCE FORM

			* ACTION: _		
SITE: MORE PROGRAM: SITE	LAND MCKESSON CO EVALUATION				
EPA ID: GADO	72472707 PROGRAM CODE: H01	EVENT TYPE: PA1			
FMS CODE:	EVENT QUALIFIER:	EVENT LEAD: S	*	BERNOLINA	<u></u> *
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### U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L A

PAGE: RUN DATE: 85/10/18 RUN TIME: 08:39:07

M.2 - COMMENT MAINTENANCE FORM

SITE:

MORELAND MCKESSON CO

EPA ID: GAD072472707

COM

NO COMMENT

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SEPA	TENTIAL HAZARDOUS PAS TENTATIVE DISPOSIT	М		C	ADO	7247	2707
	rardous Waste Log File and submit ement Task Force (EN-335), 401 M				otection Ag	enr Site	Tracking
	I. SITE IDENTI						
A. SITE MANE Mosolous	MERESSION	B. STREET	;			-	
Chanble.	i	D. STATE			E. ZIP CO	DE	
	II. TENTATIVE I	DISPOSITION			<del></del>		
Indicate the recommended action(	(s) and agency (es) that should be i	nvolved by ma	arking 'X' i	n the app	ropriate box	ces.	
- RE	COMMENDATION		MARK'X'	EPA	STATE	LOCAL -	PRIVATE
A. NO ACTION NEEDED NO HAZ	ARD				4	, st	2. 3.4 m/s
B. INVESTIGATIVE ACTION(S) NEE	EDET (If yes, complete Section III.)		X		X		
C. REMEDIAL ACTION NEEDED (II	yes, complete Section IV+)						
ENFORCEMENT ACTION NEEDS D. bc primarily managed by the EPA is inticipated.)	ED (if yee, specify in Part E whether the or the State and what type of enforcem	ne came will ent action			•		
E. RATIONALE FOR DISPOSITION				***************************************	-		
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Concus	( Jow ) Pri	Dollo	S	I			
F. INDICATE THE ESTIMATED DA (mo., dav. & yr.)	TE-OF FINAL DISPOSITION	G. IF A CONST	DEVELOP	MENT PL	N IS NECES	SARY, INDI	CATE THE
(uno., dav. or yr.)		(mo., dey,	LD DATE OF	N WHICH T	TE PLAN W	ILL BE DEV	ELUPED
H. PREPARER INFORMATION		1		_	•		
NAME (	7	2. TELEPHO	ONE NUMBE	R	3. 54	TE (mo., de)	(1. 6 Tr) Q
lay evel	ou ser					1-1-6	95 <u> </u>
A. IDENTIFY ADDITIONAL INFORM	III. INVESTIGATIVE A						
	22.2.2						
-							
E :					-		
:							
i							
B. PROPOSED INVESTIGATIVE AC	TIVITY (Detailed Information)	·					
	2.5CHEDULED 3. TO BE						
1. METHOL FOR GETAINING	DATE OF PERFORMED BY ACTION (EPA, Con-	4. ESTIMATED			5. REMARK	<\$	
NEEDED ADDITIONAL INFO.	(mo.day, & yr, tractor, State, etc.)	MANHOURS					
the state of the s							
		+	<u> </u>				
(21							
·		1					
(3)							
b. TYPE OF MONITORING							
1		1	1 -				

EPA Form T2070-4 (10-79)

C. TYPE OF SAMPLING

Continue On Reverse

## MCKESSON CHEMICAL COMPANY GAD072472707 PRELIMINARY ASSESSMENT COVER SHEET

This facility is a Treatment/Storage/Disposal (TSD) facility that is regulated by the Georgia Environmental Protection Division under the authority of the Georgia Hazardous Waste Management Act (GHWMA). This facility presently has either Interim Status (Part A on file) or has a Hazardous Waste Facility Permit (Part B is complete). Any releases of hazardous wastes at this facility are regulated as a "prior release" under GHWMA and all corrective actions will be negotiated through the Part B Permit review process. This site is therefore assessed a "NONE" priority for a Site Inspection. No further investigations are recommended with respect to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

PMA/mcw008

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### POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENT	IFICATION
01 STATE	02 SITE NUMBER
GA	D072472707

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SITE INFORMATI			ENT	GA D	07247270	)7
II. SITE NAME AND LOCATION							
01 SITE NAME (Legal, common, or descriptive name of site)	C	2 STREE	r, ROUTE NO., OR	SPECIF	IC LOCATION IDENTIFIER		
Mckesson Chemical Company		218	O Irvinda	ale :	Dr.		
cscny Chamblee	. 10	04 STATE 05 ZIP CODE 06 COUNTY GA 30366 Deka1b				O7COUNTY COOS	08 CONG pist 4
09 COORDINATES LATITUDE LONG	1						
<u>33 53 04.7 084 18</u>							
10 DIRECTIONS TO SITE (Starting from nearest public road)  Exit I-285 to Peachtree Indust  turn right on Broad and Irvind		south	. Turn I	left	on Peachtree	Rd. the	1
III. RESPONSIBLE PARTIES					•		
O'I OWNER (# known)	B .		T (Business, mailing, re	esidential	1		
Mckesson Chemical Company		Box 2	169		·		
03 CITY	i		05 ZIP CODE		TELEPHONE NUMBER		
Spartanburg		SC	29304	18	03 ) 583-8481		
07 OPERATOR (If known and different from owner) Same	0	8 STREE	T (Business, mailing, r	residentia	)		
09 CITY	1	O STATE	11 ZIP CODE	12	TELEPHONE NUMBER		
13 TYPE OF OWNERSHIP (Check one)  A PRIVATE B. FEDERAL:  (Agency name)  G. UNKNOWN  14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)  A A RCRA 3001 DATE RECEIVED:  (Specify)  B. UNCONTROLLED WASTE SITE (CERCLA 103 c)  MONTH DAY YEAR  O1 ON SITE INSPECTION  YES DATE  NO  MONTH DAY YEAR  BY (Check all that apply)  A A PORTAGOR NAME (S):  CONTRACTOR NAME (S):  O2 SITE STATUS (Check one)  A A ACTIVE  B. INACTIVE  O3 YEARS OF OPERATION  BEGINNING YEAR  ENDING YEAR  O4 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED  Various solvents. Facility is a distribution and repackaging facility.							
OS DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/O  None. Facility is regulated of the control of the cont	under the Ge			zardous (		nt Act.	
(Inspection required promptly) (Inspection required)	(Inspect on time a	vailable basi			n needed, complete current dispos	kion farm)	
VI. INFORMATION AVAILABLE FROM	02 OF (Agency:Organizat	uon)				03 TELEPHONE	NIMPER
Bert Langley	GA EPD	юпј				(404) 656	
04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORG	ANIZATION	17	7 TELEPHONE NUMBER	08 DATE	
Bert Langley	DNR	l _	-FCU	- 1	(404) 656-7802	7 / 3	3 , 85 Y YEAR

EPAFORM 2070-12 (7-81)

Phillips for 575

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### POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

I. IDENT	IFICATION
01 STATE	02 SITE NUMBER D07247270
GA	D072472703

II. WASTE ST	ATES, QUANTITIES, AN	D CHARACTERI	STICS				
01 PHYSIGAL ST	TATES (Check all that apply)	02 WASTE QUANTI		O3 WASTE CHARACTERISTICS (Check all that apply)			
LI A. SCLID	L) E SLURRY			THE A. TOXIC ☐ E. SOLUBLE ☐ I. HIGHLY VOLATILE ☐ B. CORROSIVE ☐ F. INFECTIOUS ☐ J. EXPLOSIVE			
LI B. PCWDER	R, FINES ST. LIQUID	TONS		⊠ B, CORROSIVE    □ F, INFECTIOUS    □ J. EXPLOSIVE     □ C. RADIOACTIVE    □ G. FLAMMABLE    □ K. REACTIVE			
IJ C. SLUDGE	LT G. GAS	CUBIC YARDS _	0	L3 D. PERSIST			ATIBLE
LI D. OTHER	(Specify)	NO. OF DRUMS _				□ M, NOT AF	FLICABLE
III. WASTE T	YPE		,				
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU .	SLUDGE		0	pounds	Commercia	al TSD facili	ty-have
OLW.	OILY WASTE					stored any wa	
SOL	SOLVENTS		0	pounds	site		
PSD	PESTICIDES			·		······································	
occ	OTHER ORGANIC CH	IEMICALS				<del></del>	
100	INORGANIC CHEMIC						
ACD -	ACIDS		0	pounds			
BAS	BASES			F			
MES :	HEAVY METALS		<del> </del>				<del></del>
	OUS SUBSTANCES (See A)	Condix for most fraction	tly cited CAS Numbers	I	<u> </u>		
01 CATEGORY	02 SUBSTANCE N		03 CAS NUMBER	04 STORAGE/DISI	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	F001-F003,F00		999	container	storago		CONCENTRATION
БОД	chlorinated so		1 3 3 3	Container	Storage		
	· · ·	3 T V C11 E B					
SOL	D001 ignitable	e waste	999	71			<u> </u>
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	,						
V. FEEDSTO	CKS (See Appendix for CAS Numb	ers)				,	
CATEGORY	01 FEEDSTOO	K NAME	02 CAS NUMBER	CATEGORY	01 FEEDST	OCK NAME	02 CAS NUMBER
FDS				FDS			
FOS				FDS			
FOS				FDS			
FDS				FDS			
VI. SOURCE	S OF INFORMATION (Cite	specific references. • g	, state files, sample analysis,	<u></u>			
						<del></del>	
•							

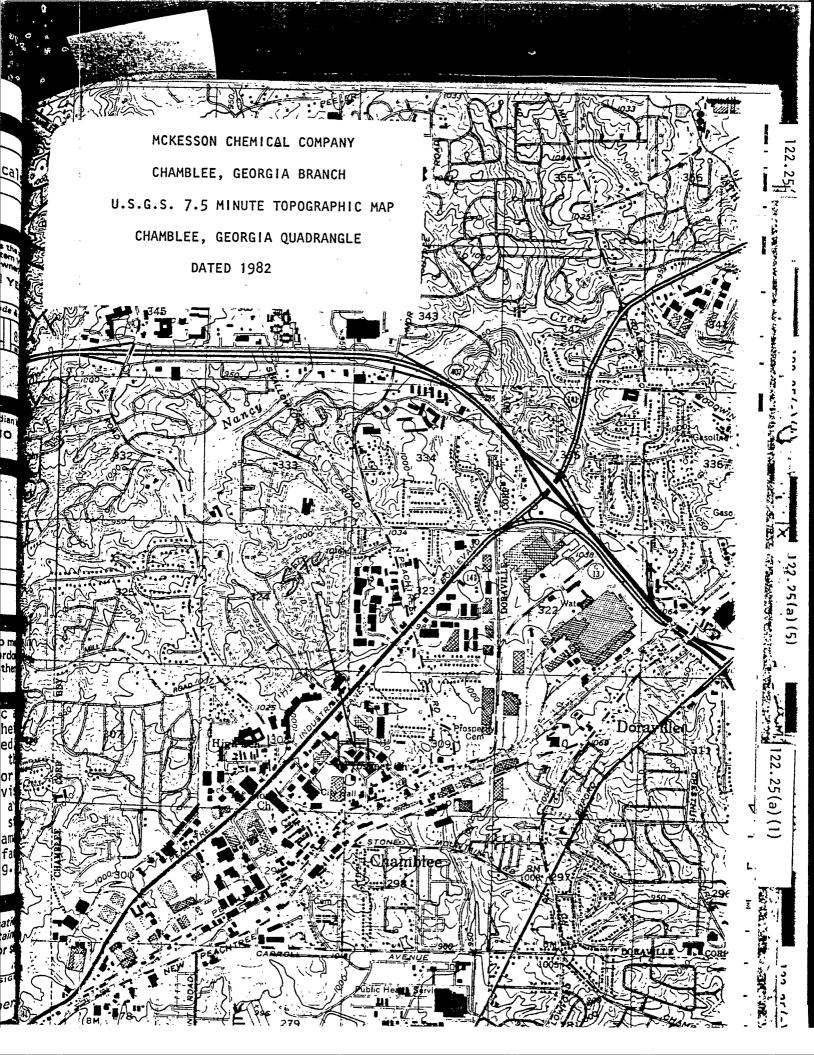
I. IDENTIFICATION

C PA	IAL HAZARDOUS WASTESITE ELIMINARY ASSESSMENT OF HAZARDOUS CONDITIONS AND INCID	I GA I I	SITE NUMBER 0072472707
II. HAZARDOUS CONDITIONS AND INCIDENTS	•	· · · · · · · · · · · · · · · · · · ·	,
01 C A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:		.) DOTENTIAL	☐ ALLEGED
			•
01 D B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 ☐ OBSERVED (DATE:	) DOTENTIAL	☐ ALLEGED
•	·		
01 E C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	02  OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	.)   POTENTIAL	☐ ALLEGED
-	•		,
. •			
01 D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:	_)	☐ ALLEGED
	:		
01 T E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED:	02 [] OBSERVED (DATE:	_) ☐ POTENTIAL	□ ALLEGED
01 ☐ F. CONTAMINATION OF SOIL 03 ÅREA POTENTIALLY AFFECTED: (Acres)	02 🗋 OBSERVED (DATE:	_) □ POTENTIAL	☐ ALLEGED
			•
01 🖸 G. DRINKING WATER CONTAMINATION 03 FOPULATION POTENTIALLY AFFECTED:	02 CJ OBSERVED (DATE:04 NARRATIVE DESCRIPTION	_) □ POTENTIAL	□ ALLEGED
01 ☐ H, WORKER EXPOSURE/INJURY	02 [] OBSERVED (DATE:	_) DOTENTIAL	□ ALLEGED
03 WORKERS POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	÷	
	·		
01 (1) POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 I J OBSERVED (DATE:04 NARRATIVE DESCRIPTION	_) □ POTENTIAL	□ ALLEGED
• ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '			
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### POTENTIAL HAZARDOUS WASTE SITE

1	I. IDENI	IFICATION
	01 STATE GA	02 SITE NUMBER D072472707

	ARY ASSESSMENT (ARDOUS CONDITIONS AND INCIDENTS		72472707
II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)			
01 D J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 □ OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
			•
01 □ K, DAMAGE TO FAUNA	02	☐ POTENTIAL	☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)			
-	•		
01 ☐ L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	□ POTENTIAL	☐ ALLEGED
			-
01 M. UNSTABLE CONTAINMENT OF WASTES (Spills runolf: standing liquids/leaking drums)	02 OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
01 C N DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 🗆 OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
OF HAILPRINE BEOOM HON			
01 □ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 04 NARRATIVE DESCRIPTION	02   OBSERVED (DATE:)	☐ POTENTIAL	□ ALLEGED
01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 🗆 OBSERVED (DATE:)	☐ POTENTIAL	□ ALLEGED _
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEC	GED HAZARDS		<u></u>
:			,
i i			
III. TOTAL POPULATION POTENTIALLY AFFECTED:			
IV. COMMENTS		<del></del>	
		•	
:			•
V. SOURČES OF INFORMATION (C.te specific references, e.g., state files,	sample analysis, reports)		
£ .			



## PRELIMINARY ASSESSMENT COVER SHEET MORELAND MCKESSON CO. GADO72472707

The Moreland McKesson Chemical Company is located at 2180 Irvingdale Drive in Chamblee, Georgia 30366. Since its inception in about 1964, the facility has been a distributor of industrial chemicals in the Atlanta area. According to a hazardous waste notification form provided by the facility, these industrial chemicals consist almost entirely of halogenated and non-halogenated solvents. These solvents are apparently handled in containers and in bulk quantities because state files indicate a drum storage area and tanker cleaning area are both present at the facility. In a phone conversation on 8/29/85, Mr. Joe Urban, Manager of the facility, stated that the facility has a neutralization tank for acid or caustic rinse water which is produced when tanker trucks are rinsed out. This rinse water is neutralized prior to discharge to the local sewer. Mr. Urban indicated that the facility does not have an NPDES permit.

The facility is located in a heavily industrialized section of Chamblee about 8 miles northeast of Atlanta. Surface runoff from the site enters Nancy Creek about 1/2 mile northeast of the site. Nancy Creek enters the Chattahoochee River about 5 miles north of the site. Ground water is not thought to be used in the area.

The site is assessed a "LOW" priority for a site inspection because little information exists regarding hazardous waste handling prior to 1980 and little is known of the integrity of the neutralization tank on site.

CSW/mcw023

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### POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT ART 1 - SITE INFORMATION AND ASSESSMEN

I. IDENTIFICATION

PART 1	SITE INFORMAT	ION AN	D ASSESSMI	ENT L	GA IDO	7247270	
I. SITE NAME AND LOCATION							
01 SITE NAME (Legal, common, or descriptive name of site)		02 STREE	T, ROUTE NO., OR	SPECIFIC LOCATION IDEN	TIFIER		
Moreland McKesson Company			Irvindal	e Drive		07COUNTY	08 CONG
Chamblee		GA	30366	DeKa1b		089	04
33° 53' 45.0" 084° 17	SITUDE						
The facility is located at the in Chamblee.	e intersect	ion o	f Irvinda	le Drive and	Peach	itree Ro	ad
III. RESPONSIBLE PARTIES	<del></del>					- , , ,	
01 OWNER (Il known)		02 STREE	T (Business, malling, r	sidential)			
Moreland McKesson Company		P. 0	. Box 216	9			
og city			05 ZIP CODE	06 TELEPHONE NUM	IBER		
Spartanburg	-	SC	29304	(803) 583-8	481		
07 OPERATOR (if known and different from owner)			T (Business, mailing, r				······································
Monoland McVoscon Company		p n	. Box 802	76			
Moreland McKesson Company			11 ZIP CODE	12 TELEPHONE NUM	IBER		
Chamblee .		GA	30366	(404) 452-1	333		
13 TYPE OF OWNERSHIP (Checkone)		w.	30300	1404 102 1		<del></del>	
A. PRIVATE D B. FEDERAL:			_ C. STAT	E D.COUNTY	□ E. MUN	IICIPAL	
☐ F. OTHER:	(Agency name)		_ 🔲 G. UNKI	JOWN			
(Specify	0		_ U G. ONKI				
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)							
X A. RCRA 3001 DATE RECEIVED: / /80	B. UNCONTROLL	ED WAST	ESHE(CERCLA 10	3 c) DATE RECEIVED:	MONTH DAY	/ D C	, NONE
IV. CHARACTERIZATION OF POTENTIAL HAZARD							
	ck all that apply)	CONTRA	CTOR []	C. STATE D	OTHER	CONTRACTOR	
11 YES DAIE : / /	EPA 🔲 B. EPA LOCAL HEALTH OFFI		F. OTHER:			ONTRACTOR	
NJ NO	RACTOR NAME(S):			(Spec	ufy)		
02 SITE STATUS (Check one)	03 YEARS OF OPERA						
X A. ACTIVE ☐ B. INACTIVE ☐ C. UNKNOWN		964 EGINNING YI		nuing 🗆 U	INKNOWN		
of description of substances possibly present, known, spent halogenated solvents	, OR ALLEGED						
spent non-halogenated solvents	· c						
unspecified corrosives (D002)	) 						
unspectified corrostves (book)							
os description of potential hazard to environment and Low - little information existo 1980.		ıg haz	ardous wa	ste handling	prac	tices pr	ior
V. PRIORITY ASSESSMENT			· · · · · · · · · · · · · · · · · · ·				
01 PRIORITY FOR INSPECTION (Check one, If high or medium is checked,	complete Part 2 · Waste Infor	mation and Pa	rt 3 - Description of Ha	zardous Conditions and Incident	:s)		<u></u>
☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required)	C. LOW (Inspect on time		D. NON			tion form)	
VI. INFORMATION AVAILABLE FROM							
01 CONTACT	02 OF (Agency/Organiz	ation)				03 TELEPHONE	NUMBER
Mr Joe Urban, Manager  04 PERSON RESPONSIBLE FOR ASSESSMENT	Moreland N		on Co.	07 TELEPHONE NU	MARCE	404 452	2-1333
Steve Walker Phills 5N	DNR	i i	D-RAU	404 )656-7	1	08/29	9, 85

EPAFORM 2070-12 (7-8)

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#### POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

CA DOT 2472707

			PART 2 - WAST	E INFORMATION		GADU/2	4/2/0/
I. WASTE ST	TATES, QUANTITIES, AN	ID CHARACTER	ISTICS		·		
	TATES (Check àll linst apply)  [] E. SLURRY  R. FINES	02 WASTE QUANT (Measures must bi TONS	ITY AT SITE of waste quantities undependent)	03 WASTE CHARACTE  A. TOXIC  B. CORROS  C. RADIOA  L.) D. PERSISS	II E. SOLL SIVE II F. INFEC	IBLE DILHIGHLY \ CTIOUS DILEXPLOS IMABLE DIK. REACTI	IVE VE PATIBLE
III. WASTE T	YPF	·		<u> </u>	·····		
CATEGORY	SUBSTANCE N	IAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE		OT GROOD AMOUNT	OZ OM OT MIZNOSTIZ	OO OOMMERTO	<del></del>	
OLW	OILY WASTE		<del>-  </del>				
SOL	SOLVENTS		unknown		various ba	logenated and	l non-halog
PSD	PESTICIDES .		UIIKIIOWII		(See RCRA	logenated and Part A Applic	cation - at
occ	OTHER ORGANIC CH				1000 110101	. и. о л. л.р.р.т.	
IOC :	INORGANIC CHEMIC		<u> </u>		<u> </u>		
ACD	ACIDS						
BAS .	BASES	<del></del>					
MES	HEAVY METALS					····	
V. HAZARD	OUS SUBSTANCES (See A	poendix for most freque	ntly cited CAS Numbers)	<u>. L</u>	· · · · · · · · · · · · · · · · · · ·		
1 CATEGORY	02 SUBSTANCE N	<del></del>	03 CAS NUMBER	04 STORAGE/DIS	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
			-				CONCENTIATION
		-					
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			<u>.L.</u>	<u> </u>		<u>.l</u>	<u> </u>
V. FEEDSTO	OCKS (See Appendix for CAS Numb	ners)	· · · · · · · · · · · · · · · · · · ·		-		
CATEGORY	01 FEEDSTOC	CK NAME	02 CAS NUMBER	CATEGORY	01 FEEDS	TOCK NAME	02 CAS NUMBER
FDS				FDS	·····		
FD\$				FDS			
FD\$				FDS			
FD\$				FDS			
	S OF INFORMATION ICH	soecule references e		renove l			

### **SEPA**

## POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

CA DO7/17/2707

C A. GROUNDWATER CONTAMINATION POPULATION POTENTIALLY AFFECTED:	02   OBSERVED (DATE:	) □ POTENTIAL	☐ ALLEGED
XB. SURFACE WATER CONTAMINATION POPULATION POTENTIALLY AFFECTED: unknown	02 □ OBSERVED (DATE:	) Ø POTENTIAL	☐ ALLEGED
Potential from unknown hazan	rdous waste handling pra	ctices prior to 1	1980.
C. CONTAMINATION OF AIR POPULATION POTENTIALLY AFFECTED:	02 ☐ OBSERVED (DATE:	) 🗆 POTENTIAL	□ ALLEGED
D. FIRE/EXPLOSIVE CONDITIONS POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	POTENTIAL	□ ALLEGED
U E. DIRECT CONTACT POPULATION POTENTIALLY AFFECTED:	02 □ OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	) □ POTENTIAL	□ ALLEGED
	-	· .	
AREA POTENTIALLY AFFECTED: 1/4 - 10	02  OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	) X POTENTIAL	□ ALLEGED
AREA POTENTIALLY AFFECTED: 1/4 - 10  Potential from unknown haza	o4 NARRATIVE DESCRIPTION  rdous waste handling pro	actices prior to	•
Potential from unknown haza	o4 NARRATIVE DESCRIPTION  rdous waste handling pro	actices prior to	•
Potential from unknown haza	04 NARRATIVE DESCRIPTION  rdous waste handling pro  02 [] OBSERVED (DATE:	actices prior to	1980.
Potential from unknown haza  G. DRINKING WATER CONTAMINATION POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION  rdous waste handling pro  02 [] OBSERVED (DATE:	actices prior to	1980.
Potential from unknown haza  G, DRINKING WATER CONTAMINATION POPULATION POTENTIALLY AFFECTED:  The worker exposure/injury	04 NARRATIVE DESCRIPTION  Property of the control o	actices prior to	1980.
	04 NARRATIVE DESCRIPTION  Property of the control o	actices prior to	1980.

SEPA

EPA FORM 2070-12 (7-81)

### POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

GA D072472707

PART 3 - DESCRIPTION OF HAZ	ZARDOUS CONDITIONS AND INCIDENTS	GA I DU	2412/01
II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)			
01 □ J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 🗆 OBSERVED (DATE:)	□ POTENTIAL	☐ ALLEGED
		•	
			'
01 ☐ K. DAMAGE TO FAUNA	02 OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)			
	•		
01 D L. CONTAMINATION OF FOOD CHAIN	02   OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
04 NARRATIVE DESCRIPTION		-	
01  M. UNSTABLE CONTAINMENT OF WASTES	02 OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
(Spills/runoff.standing liquids/leaking drums) 03 POPULATION POTENTIALLY AFFECTED:			
00.01.01.01.01.01.01.01.01.01.01.01.01.0			
•	, .		
01 ☐ N. DAMAGE TO OFFSITE PROPERTY	02 G OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
04 NARRATIVE DESCRIPTION	oz z oboch oz oboch o		
1			
01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 04 NARRATIVE DESCRIPTION	02 🗆 OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
-			
	· · · · · · · · · · · · · · · · · · ·		
01 🖸 PÜÜLLEGAL/UNAUTHORIZED DUMPING 04 NARRÄTIVE DESCRIPTION	02 C OBSERVED (DATE:)	☐ POTENTIAL	ALLEGED
			·
:		•	
į			
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEG	GED HAZARDS		
	and the second s	•	
III. TOTAL POPULATION POTENTIALLY AFFECTED:			
IV. COMMENTS			
:			
V. SOURCES OF INFORMATION (Cite specific references, e.g., state files,	sample analysis, reports)		
GA EPD State Files.			
1			



as are spaced for elite type, i.e., 12 characters/inch). Form Approved OMB No. 158-1	
GENERAL INFORMATION	
Consolidated Permits Program (Read the "General Instructions" before starting.)  FG A D 0 7 2 4 7 2	
EPA L.D. NUMBER	provided affiv
ation carefully; if any of it is	ew the inform-
through it and enter the corresponding to the propriet distribution of the	Also if any of
The preprinted data is absent to left of the label space lists to the MAILING ADDRESS  PLEASE PLACE LABEL IN THIS SPACE  This space lists to the label space lists to the l	he information '
proper fill—in area(s) below, complete and correct, you nee Items 1, III, V, and VI (exca	d not complete
FACILITY  which is a completed regardless, items if no label has been pro	). Complete all vided. Refer to
LOCATION the instructions for detailed tions and for the legal author	item descrip- rizations under
II. POLLUTANT CHARACTERISTICS	
II. POLLUTANT CHARACTERISTICS  INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer	"ves" to any
questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the fif the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold—faced terms.	third column 🚉
SPECIFIC QUESTIONS MARK X. SPECIFIC QUESTIONS	MARK 'X'
A le this facility a publicly owned treatment works  B. Does or will this facility (either existing or proposed)	ATTACHE
which results in a discharge to waters of the U.S.?  X include a concentrated animal feeding operation of aquatic animal production facility which results in a discharge to waters of the U.S.?    Construction   Const	X 20 21
C. Is this a facility which currently results in discharges  D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to	x
A or B above? (FORM 2C)  22 23 24 waters of the U.S.? (FORM 2D)  3	2 28 27
E. Does or will this facility treat, store, or dispose of X municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)	X 32 33
G. Do you or will you inject at this facility any produced H. Do you or will you inject at this facility fluids for spe-	
cial processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy?	X
hydrocarbons? (FORM 4)  A 35 36 (FORM 4)	7 38 39
J. Is this facility a proposed stationary source which is  One of the 28 industrial categories listed in the in-  NOT one of the 28 industrial categories listed in the in-	
structions and which will potentially emit 100 tons  X instructions and which will potentially emit 250 tons  per year of any air pollutant regulated under the Clean  Air Act and may affect or be located in an Air Act and may affect or be located in an attainment	×
attainment area? (FORM 5)  40 41 42 erea? (FORM 5)	3 44 45
III. NAME OF FACILITY	5 m 5 m 4 m 5 m 5 m 5 m 5 m 5 m 5 m 5 m
IV. FACILITY CONTACT	
B. PHONE (area code & no.)	To to what his it
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V. FACILITY MAILING ADDRESS	J. Williams
A. STREET OR P.O. BOX	
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B. CITY OR TOWN C. STATE D. ZIP CODE	
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VI. FACILITY LOCATION	4 to 17 19 4 4
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B. COUNTY NAME  THE VALUE OF THE PROPERTY OF T	inacity 57
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G. CITY OR TOWN D. STATE E. ZIP CODE F. COUNTY CODE (II known)	
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EPA Form 35 10-1 (6-80) CONTINU	E ON REVERS

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VIII. OPERATO	THE	A, NAME	1.48			B. is the name listed in
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	US OF OPERATOR (Enter the appro		er box; if "Other",	specify.)		area code & no.)
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22942-22-2	E. STREET OR	P.O. BOX	· · · · ·			
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K. EXISTING E	NVIRONMENTAL PERMITS	Bridge Control of the	\$C\$ 0.415			
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KI. MAP	中心的人。但可以是他的特殊	<b>1700年1月1日</b>	1947年6月		的现在分词 图	
Attach to th	is application a topographic map	of the area extending t	o at least one mil	e beyond prop	erty bounderies. T	he map must show 🍇
the outline of	of the facility, the location of ear	ch of its existing and p	proposed intake a	and discharge st	ructures, each of i	ts hazardous waste
	torage, or disposal facilities, and in the map area. See instructions			ground. Include	all springs, rivers	and other surface
	OF BUSINESS (provide a brief descrip		resource designation	AND 1995年至1995年		
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Surface	water at this location	n is trapped in	underground	containme	nt tanks whe	re the pH is
adjuste	d, if necessary, before	e the water is p	numped into	the sewer	system. To	anticipate
the pos	sibility of an acciden	tal spill which	might resul	t in trace	quantities	of a hazardous
materia	1 being present in the	containment sys	stem, we hav	e elected	to list this	location as
a treat	ment facility.	•				•
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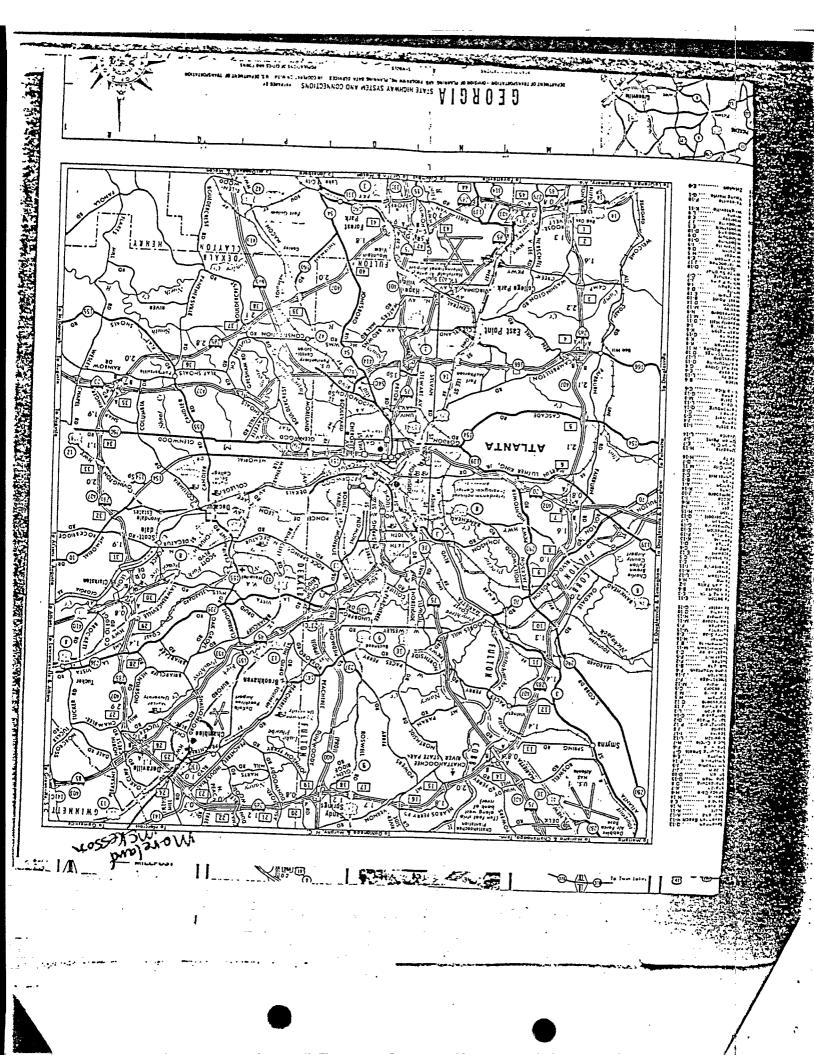
PA Form 3510-3 (6-80)

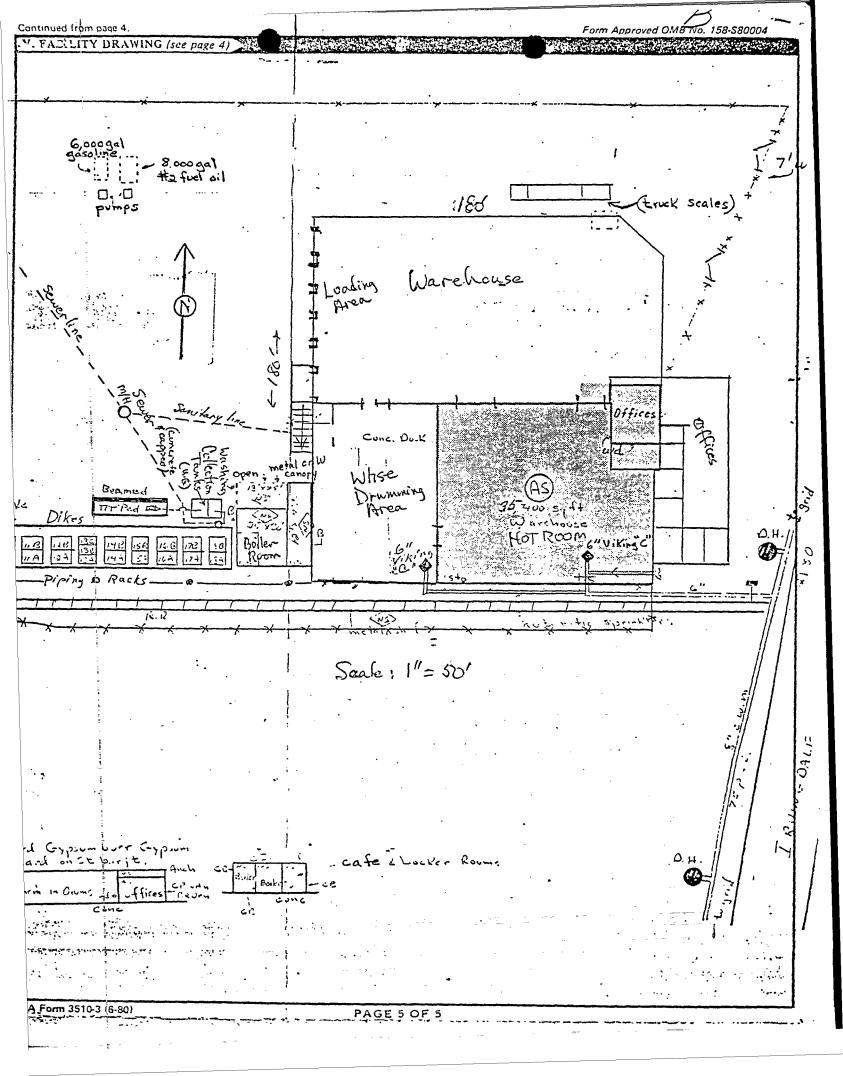
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7. FACIL	ITY DRAWING		Service of the service			A SHAPE		r de S
	g facilities must include in the space	provided on page 5	a scale drawing of th	e facility <i>(see instructi</i>	ons for more de	tail).	~	
<b>/1.</b> PHO1	OGRAPHS		STATE WAS ASSESSED.					
	ng facilities must include photog						xisting storage,	
	t and disposal areas; and sites of		reatment or dispos	al areas <i>(see instruc</i>	tions for mor	e detail).		
II. FAC	ILITY GEOGRAPHIC LOCATION	ON					<b>位为人的</b>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	LATITUDE (degrees, minute	es, & seconds)	·	LONGITE	JDE (degrees, n	inutes, &	seconds)	
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	63 56 67 68	G9 + 71		17	2 - 74 75 7	6 77 -	79	
	The facility owner is also the facility	operator as listed in	Section VIII on For	rm 1 "General Inform	ation" place a	"X" in t	he how to the lef	t and
XA. If	the facility owner is also the facility to Section IX below.		· · · · · · · · · · · · · · · · · · ·	• . • . • . • . • . • . • . • . • . • .		"X" in t	he box to the lef	t and
XA. If	the facility owner is also the facility ip to Section IX below.  the facility owner is not the facility		Section VIII on For	• . • . • . • . • . • . • . • . • . • .			he box to the lef	
XA. If	the facility owner is also the facility ip to Section IX below.  the facility owner is not the facility	operator as listed in	Section VIII on For	• . • . • . • . • . • . • . • . • . • .			12. 12. 1	
XA. If	the facility owner is also the facility ip to Section IX below.  the facility owner is not the facility	operator as listed in	Section VIII on For	• . • . • . • . • . • . • . • . • . • .	lowing items:		12. 12. 1	
XA. If	the facility owner is also the facility ip to Section IX below.  the facility owner is not the facility	operator as listed in	Section VIII on For	• . • . • . • . • . • . • . • . • . • .	lowing Items:	2. PHO	NE NO. (area co	de & no.)
XA. If	the facility owner is also the facility ip to Section IX below.  the facility owner is not the facility  1. NAM	operator as listed in	Section VIII on For	m 1, complete the fol	lowing Items:	2. PHO	NE NO. (area co	de & no.)
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B. If	the facility owner is also the facility ip to Section IX below.  the facility owner is not the facility  1. NAM  3. STREET OR P.O. BOX  ER CERTIFICATION	operator as listed in	Section VIII on For	m 1, complete the fol	lowing items:	2. PHO	0NE NO. (area co	de & no.)
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RIPTION OF HAZARDOUS WARES (continued)
THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON THE E 3.

rom the front.





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	INSTALLA- TION'S EPA I.D. NO.			/1/	را		through it	t and supply the correct information propriets section below. If the later	atic
	I. STALLATION	· .		510	2819		complete a	and correct, leave Items I, II, ann. nk. If you did not receive a prepri	id int
-	INSTALLA-	•		6	~		label, com single site	nplete all items, "Installation" me where hazardous waste is gener	ans rate
	II. MAILING ADDRESS	PLEA	SE PLACE LA	ABEL IN THIS	SPACE		porter's p	tored and/or disposed of, or a trincipal place of business. Please	ref
							CATION	STRUCTIONS FOR FILING NO before completing this form.	T.
	LOCATION III OF INSTAL- LATION			•	:		(Section 3	on requested herein is required by 1010 of the Resource Conservation Acti	
<u>.</u>							Recovery .		_
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	15 16 INSTALLATION"	S EPA I.D. NUM	BER APPRO	OVED DATE REC				55	
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ŀ	IV. INSTALLATION	<del></del>	ND TITLE (last, fire	st, & job title)			PHO	ONE NO. (grea code & no.)	
	<sup>c</sup> <sub>2</sub> URBAN	JĢE		GE R			4 0	4-452-1333	
Ţ.	V. OWNERSHIP	10 14 \$ 24 0 × 5,5					43 46 -	48 49 - 51 52 - 55	
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	8 MORELA	ир - Мс	KES\$ ON			co	. I N	58	
7	B. TYPE OF OWN (enter the appropriate )	NERSHIP letter into box)	<del> </del>		STE ACTIV		<del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>	in the appropriate box(es))	
	F = FEDERAL M = NON-FEDER	RAL M	57	ENERATION		38	•	RTATION (complete item VII)	
-	VII. MODE OF TRA	56	59	REAT/STORE/DISP		60		NOUND INJECTION	
ł		B. RAIL	C. HIGHWA				ox(es/) (specify):		
-	VIII. FIRST OR SUE	62	63	44	ER ES		15);		
ı		oriate box to indi	icate whether this is	vour installation's	first potification	on of haz	ardous was	ste activity or a subsequent notific	atio
	and to not your ilest?	ente	, our maidilation's	. בי אייי אייי איייי אייי	me sbace bt	d Deulyo	410 <b>W.</b>	C. INSTALLATION'S EPA I.D.	N-
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			·		(com)	ITEN	,	GADO 7 2 4 7 2 7	٧
	IX. DESCRIPTION ( Please go to the reverse			ted information	Tank Trans Harris			30 . 1, 12 mm.	

				*W	7/A C
IX. DESCRIPTION OF HAZA	ARDOUS WASTES	continued from fron	t)	1 1 2	13 14 1
A. HAZARDOUS WASTES FROM waste from non-specific source	M NON-SPECIFIC SOU	RCES. Enter the four	digit number from 4	OCFR Part 261.31 for e	ach listed hazardous
F 0 0 1 23 - 25 7	2 F 0 0 2 23 - 26 8	3 F 0 0 3 23 20 9	F 0 0 5	23 - 26	23 - 26
B. HAZARDOUS WASTES FROM specific industrial sources your	A SPECIFIC SOURCES. installation handles. Us	Enter the four—digit is additional sheets if n	number from 40 CFR ecessary.	Part 261.32 for each list	ed hazardous waste from
19	20	15 27 - 26 21 27 - 25 27 23 - 26	23 · 26 22 23 · 26 28	27 - 26 23 - 26 23 - 26 29	23 - 26 24 23 - 26 30
C. COMMERCIAL CHEMICAL Prostance your installation handles	RODUCT HAZARDOU which may be a hazard	S WASTES. Enter the lous waste. Use addition	four—digit number fro onal sheets if necessary	m 40 CFR Part 261.33	for each chemical sub-
31 U 0 0 2 23 - 25 37 U 1 5 9 23 - 26 43	32 U 2 1 0 23 25 38 U 1 6 1 23 26 44	33 U 2 2 8 25 26 39 U 2 2 0 23 26 45	34 U 0 6 9 23 - 25 40 U 2 3 9 23 - 26 46	35 U 1 5 4 23 - 26 41 23 - 26 47 23 - 26	36 U 2 2 6 23 - 26 42 23 - 26 48 23 - 26
D. LISTED INFECTIOUS WASTI hospitals, medical and research					
23 - 24	25 - 26	23 - 26	23 - 26	53	23 - 26
E. CHARACTERISTICS OF NON hazardous wastes your installat				onding to the characteri	stics of non-listed
X 1. IGNITABLE	(D002)	CORROSIVE	☐3. REACT (D003)	(1	4. TOXIC 3000)
X. CERTIFICATION  I certify under penalty of attached documents, and the submitted mitting false information, in	law that I have personat based on my inqu tinformation is true,	uiry of those individ accurate, and com	d am familiar with luals immediately r plete. I am aware t	the information subresponsible for obtain	iing the information,
\$IGNATURE ADOSTE		J. H. Fos	ALTITLE (type or protection) ter Operations M	-	2/2/82

I.D. - FOR OFFICIAL USE ONLY

EPA Form 8700-12 (6-80) REVERSE

Note: We are anticipating the possible extension of our distributor business to transpospent solvents from our customers back to our new corporation affiliate, McKesson Envirosystems, which will recycle these solvents in an approved system at Newcastle or Newark, N. J. The above categories are estimates of what items may be involved, and will be entirely for recycling only.

### DEPARTMENT OF NATURAL RESOURCE.

### ENVIRONMENTAL PROTECTION DIVISION

# RECEIVED

WASTE MANAGEMENT DATA SHEET

FEB 22 1984

SOLIO WI
NAME AND LOCATION OF FACILITY
McKesson Chemical Company
P. O. Box 80276
2180 Irvindale Drive
Chamblee, GA 30366
ı
PERSON TO CONTACT
(ENTER THE NAME, ADDRESS, TITLE AND BUSINESS TELEPHONE NUMBER OF
THE PERSON TO CONTACT REGARDING INFORMATION SUBMITTED ON THIS FORM).
Joe Urban, Manager
(404) 452-1333
DAMPS OF THEM TANDETIS
DATES OF WASTE HANDLING (ENTER THE YEARS THAT YOU ESTIMATE WASTE TREATMENT, STORAGE OR DISPOSAL
BEGAN AND ENDED AT THE SITE. IF YOU SELECTED A FACILITY OFF-SITE PLEASE
NOTE AND EXPLAIN IN "COMMENTS" SECTION.
No intentional generation since opening, 1964 (?)
Registered as (potential) generator and Transporter since 1980
No storage, treatment, disposal, or other processing operation has
occurred.
Can store up to 10 days on transporter permit, if required.
GENERAL TYPE OF WASTE
GENERAL TILE OF WASIE
1- ( ) ORGANICS 7- ( ) BASES
2- () INORGANICS 8- () PCB's
3- ( ) SOLVENTS 9- ( ) MIXED MUNICIPAL WASTE
4- ( ) PESTICIDES 10- ( ) UNKNOWN
5- ( ) HEAVY METALS . 11- ( ) OTHER (SPECIFY)
6- ( ) ACIDS
ILL GREE AND AND AND AND AND AND AND AND AND AND
WASTE QUANTITY (ESTIMATED)
HAS THERE EVER BEEN A SPILL OR DISCHARGE OF A HAZARDOUS SUBSTANCE FROM YOU
FACILITY? (BRIEFLY EXPLAIN THE NATURE OF THE RELEASE).
ilone

### COMMENTS

IF THERE IS ANY COMMENTS THAT YOU BELIE HANDLING PRACTICES OF YOUR FACILITY OR HANDLE YOUR WASTE, PLEASE ELABORATE IN Elementary wash-water neutralization s	OF FACILITIES YOU SELECTED TO THE SPACE PROVIDED).
from regulation, 11/80.	
SIGNATURE AND TITLE	NAME TELEPHONE McKesson Chemical Company P. 0. Box 2169
•	STREET  Old Union Road  Spartanburg, SC 29304  CITY STATE ZIP CODE  Were Company 2/20/84  SIGNATURE DATE

### TELEPHONE MEMORANDUM

FROM: Steve Walker - (a. EPD (404)636 - 7404
TO: Mr. Joe Urban - McKesson Chem. Co. (404) 452 - 1333
SITE: Moreland Mckesson Co.
DATE: 8/29/85 TIME: 10:25 a.m.
COMMENTS: State files on Mckesson Chem. Co, are
J called Mr. Urban to clarify this.
Mr. Urban stated that the facility is a
distributor (wholesaler for industrial chemicals (such
as solvents. Mr. Unban stated that the facility has
been active for about 25 years and that there has
never been any burief or disposal on site. He stated that
any chemicals that the facility wants to dispose of
are taken to a Mckesson Chem. Co. disposal facility
at New Castle, Ky or to a Mckesson incheration
in the C Puento Rico
Mr. Urban Stated that the facility does not
have an NPDES permit to his knowledge.
ACTION REQUIRED:
ACTION REQUIRED.
Him I day o /10/00
cc: 1)
3)
the state of the s



## Site Inspection Report

**ŞEPA** 

### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 1 - SITE LOCATION AND INSPECTION INFORMATION

1. IDENTIFICATION

01,STATE | 02 SITE NUMBER

GA | D072472707

() Li / (	PART 1 - SITE	LOCATION AND	INSPECTION INFORM	ATION GT	DU14412101
II. SITE NAME AND LOCA					
More land Ma 33 CITY	escriptive name of site) CKESSON COMP	Dany	02 STREET, ROUTE NO., OR SF 2/80 Indi,	Usdeele Rd	lozcountyl va cong
00 COOPDINATES	1.	S TURE OF OUR EROL	GA 30366		089 04
33 53 45.0	084 1750.0	A. PRIVATE	B. FEDERAL	C. STATE D. COUNT	TY 🗔 E. MUNICIPĀL " DWN
III. INSPECTION INFORMA		00 VE 100 05 055013			
MONTH DAY YEAR	☐ ACTIVE	03 YEARS OF OPERAT 190 BEG	64   UPKDOW I NNING YEAR ENDING YEAF	UNKNOW	N
04 AGENCY PERFORMING INSPE ☐ A. EPA X B. EPA CO ☐ E. STATE ☐ F. STATE C	INTRACTOR NUS COY	mfe of firm)	☐ C. MUNICIPAL ☐ D. M		(Name of firm)
05 CHIEF INSPECTOR	(Na.	me of firm)		(Specify) 07 ORGANIZATION	08 TELEPHONE NO
Alvin L. Wil	1)	[ = all -	Technician	NUS	(404) 938-7710
D9 OTHER INSPECTORS	IIAMS	10 TITLE	14 Chrician	11 ORGANIZATION	12 TELEPHONE NO.
					( )
					( )
	The state of the s				( )
A OUT DEDOCASTATIVE INT	TOUGHED	14 TITLE	1454000500		( )
13 SITE REPRESENTATIVES INTE	ENVIEWED	14 IIICE	15ADORESS		( )
				****	( )
		<u> </u>			( )
					( )
					( )
			W		( )
17 ACCESS GAINED BY	18 TIME OF INSPECTION	19 WEATHER CON	NTIONS		
(Check one)  PERMISSION WARRANT	1435		Clear Skies	, 520	
IV. INFORMATION AVAIL	ABLE FROM				Loo TELEGUIONES
Janice -		EPA	izauon)		03 TELEPHONE NO." (404) 347-5065
Aluis L. W	ASITE INSPECTION FORM	05 AGENCY	NUS	404-938-771	08 DATE  1-31-90  MONTH DAY (EAR
EPA FORM 2070-13 (7-81)					

	F"DA	
3	- - -/ <b> </b>	
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#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 2 - WASTE INFORMATION

I. IDENTIFICATION						
01 STATE	02 SITE NUMBER					

\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			PART 2 - WAST	E INFORMATION	}	(U) 1 10012	1777.
II. WASTES	TATES, QUANTITIES, AN	D CHARACTER	STICS				
A SOLID E SLURRY B POWDER FINES F. LIQUID C SLUDGE G GAS		02 WASTE QUANTITY AT SITE  Measures of waste quantities  "ust be independent,"  TONS  CUBIC YARDS		O3 WASTE CHARACTERISTICS .C.necx att 'nat 300'y)  A TOXIC		IVE VE PATIBLE	
, D OTBER	Specifyi	NO. OF DRUMS -					
III. WASTET	YPE						
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE						
OLW	OILY WASTE						
SOL	SOLVENTS		UNKNOWN		Various halogenated and		
PSD	PESTICIDES	,	,		NON-holoa	Various halogenated and non-hologenated Solvents; also unspecified Corrosives	
occ:	OTHER ORGANIC CH	OTHER ORGANIC CHEMICALS			also misderified Corrosines		
10C	INORGANIC CHEMICALS				(D002)		3,00
ACD	ACIDS				(0007)		
BAS	BASES						
MES	HEAVY METALS						
IV. HAZARD	OUS SUBSTANCES (See A)	opendix for most frequent	ly cited CAS Numbersi				
01 CATEGORY	02 SUBSTANCE N	AME	03 CAS NUMBER	04 STORAGE DIS	04 STORAGE: DISPOSAL METHOD 05 CONCENTRATION CON		06 MEASURE OF CONCENTRATION
						<u> </u>	
_	· · · · · · · · · · · · · · · · · · ·						
					<del></del>	<u> </u>	†
	<del> </del>						
							<del>                                     </del>
							<u> </u>
			<del> </del>		<del></del>		
			<del> </del>	<del> </del>	<del></del>		<del>                                     </del>
				<del> </del>		<del> </del>	
			<del> </del>				<del> </del>
							<del> </del>
				<u> </u>			<u>]</u>
V. FEEDSTO	CKS , See Appendix for CAS Numb	ers)	<del></del>	· • · · · · · · · · · · · · · · · · · ·			
CATEGORY	01 FEEDSTOC	K NAME 02 CAS NUMBER		CATEGORY	01 FEEDS1	FOCK NAME	02 CAS NUMBER
FDS				FDS			
FPS				FDS			
FÞS				FDS			
FDS				FDS			
VI. SOURCE	S OF INFORMATION (Cite	specific references, a g	, state liles, sample analysis,	reports)			
EPA	ivid State fil	es					

**\$EPA** 

### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION						
O1 STATE	02 SITE NUMBER D072472707					

TAIL O DECOME HOROTE								
II. HAZARDOUS CONDITIONS AND INCIDENTS								
#1 A. GROUNDWATER CONTAMINATION #3 POPULATION POTENTIALLY AFFECTED:	02 © OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	_ POTENTIAL	3. ALLEGED					
N/A								
01 B SURFACE WATER CONTAMINATION UN KNOWN	02 TOBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	<b>X</b> POTENTIAL	_ ALLEGED					
Patential from unknown hazardous waste handling prior to 1980								
01 C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	02 C OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	_ POTENTIAL	□ ALLEGED					
N/A								
01 □ D. FIRE-EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED:	02 G OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	C POTENTIAL	□ ALLEGED					
:								
01 _ E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED:	02 TOBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	□ ALLEGED					
N/A								
01 X F CONTAMINATION OF SOIL 14-10 03 AREA POTENTIALLY AFFECTED: (Acres)	02 _ OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	X POTENTIAL	_ ALLEGED					
Potential from unknown hazardous waste handling prior to 1980.								
0 1 _ G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	ALLEGED					
N/A								
01 TH. WORKER EXPOSURE/INJURY 03 WORKERS POTENT!ALLY AFFECTED:	02 TOBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	C POTENTIAL	_ ALLEGED					
NA								
01 T. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 _ OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	□ ALLEGED					
N/A								

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## POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENT	IFICATION	
OL STATE	02 SITE NUMBER D072472	707

PART 3 - DESCRIPTION OF HA	ZARDOUS CONDITIONS AND INCIDENTS	<u>ن</u> ــــــــــــــــــــــــــــــــــــ	14 / / / / / / / /
II. HAZARDOUS CONDITIONS AND INCIDENTS .Continued			
01 _ J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 TOBSERVED (DATE)	☐ POTENTIAL	□ ALLEGED
NIA			
01  K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION Include namers; of species)	02 TOBSERVED (DATE:)	☐ POTENTIAL	_ ALLEGED
NIA			
01 ☐ L. CONTAMINATION OF FOOD CHAIN 04 NARRÀTIVE DESCRIPTION	02 TOBSERVED (DATE:)	☐ POTENTIAL	_ ALLEGED
N/A			
01 C M. UNSTABLE CONTAINMENT OF WASTES	02 ☐ OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
'(Spilks, Runolf, Standing liquids, Leaking drums) 03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
N/A			
01 ☐ N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 C OBSERVED (DATE:)	☐ POTENTIAL	_ ALLEGED
N/A			
01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 04 NARRATIVE DESCRIPTION	02 C OBSERVED (DATE:)	.   POTENTIAL	☐ ALLEGED
MÁ			
01 ☐ P. (LLEGAL/UNAUTHORIZED DUMPING 04 NARRÀTIVE DESCRIPTION	02 C OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
A/N			
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEC	GED HAZARDS		
N/A		~	
III. TOTAL POPULATION POTENTIALLY AFFECTED:			_
IV. COMMENTS			
V. SOURCES OF INFORMATION (Cite specific reterences, e.g. state files.)	sample analysis. 'eportsi		
EPA and State files			
EPA and state files GA EPD files		•	

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## POTENTIAL HAZARDOUS WASTE SITE

I. IDENT	IFICATION	
01 STATE	02 SITE NUMBER DO 7 2 4 7 2 7 0	_
70	00/24/2/0	1

<b>WEPA</b>	PART 4 - PERMIT	SITE INS AND DE			ION	GA D072472707
I. PERMIT INFORMATION		·····				
01 TYPE OF PERMIT ISSUED  Creak 3" that sup .	02 PERMIT NUMBER	03 DATE I	SSUED	04 EXPIRATION DATE	05 COMMENTS	
_ A NPDES						
B. UIC						
C. AIR						
∴ D. RCRA						
_ E. RCRA INTERIM STATUS						
F. SPCC PLAN						
☐ G STATE Specify)						
☐ H. LOCAL Specify,						
☐ I. OTHER (Specify)						
CJ. NONE						
II). SITE DESCRIPTION						
0) STORAGE DISPOSAL (Check all that apply)	22 AMOUNT 03 UNIT OF	FMEASURE	04 TR	EATMENT (Check all that a	op(y)	05 OTHER
_ A, SURFACE IMPOUNDMENT			□ A.	INCENERATION		A. BUILDINGS ON SITE
☐ B. PILES			1 * -	UNDERGROUND INJE		_ A. BUILDINGS ON SITE
C. DRUMS, ABOVE GROUND				CHEMICAL/PHYSICA	L	
E. TANK, BELOW GROUND	WKNOWN			BIOLOGICAL WASTE OIL PROCES:	SING	06 AREA OF SITE
☐ F. LANDFILL			l .	SOLVENT RECOVER		
☐ G. LANDFARM			□ G.	OTHER RECYCLING/	RECOVERY	Acces,
☐ H. OPEN DUMP			□ н.	OTHER(Spe	Gifv1	
: 1. OTHER						
underground New rinsed out.	The Sulford					
IV, CONTAINMENT		<del></del>				
01 CONTAINMENT OF WASTES (Check one)						
☐ A. ADEQUATE, SECURE	☐ B. MODERATE	☐ C. II	NADEQU	JATE, POOR	D. INSECU	JRE, UNSOUND, DANGEROUS
02 DESCRIPTION OF DRUMS, DIKING, LINERS. B	ARRIERS, ETC.					· ·
•						
•						
V. ACCESSIBILITY						
01 WASTE EASILY ACCESSIBLE. YES	X NO				-	
Facility is forced						
VI. SOURCES OF INFORMATION (Cité Sp	ectic references, e q. state files, samo	nie analysis, 180	ortsi		<del></del>	
EPA and State file	<del></del>					
GA EPD file						
NUS Field Log book	F4-1950					

2	FPA
7/	

# POTENTIAL HAZARDOUS WASTE SITE

I. IDENT	IFICATION	
	02 SITE NUMBER	

SEPA		SITE INSPECTION REPORT PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA					O1 ST	A DOTAYTA	<u>707</u>
II. DRINKING WATER S	UPPLY								
01 TYPE OF DRINKING SUPP	LY		02 STATUS				03	3 DISTANCE TO SITE	
COMMUNITY	SURFACE A. 🟂	WELL B. 🗲	ENDANGERE A. I	ED AFFE B.		MONITORED C. 🗆	A	(mi)	
NON-CON MUNITY	C. 🗆	D. 🗔	D. 🗆	E.	□ -	F. 🖸	В	(mi)	
III. GROUNDWATER		•					<b></b>		
01 GROUNDWATER USE IN V	ICINITY (Chack o	one)							
T A. OFILY SOURCE FOR	BORINKING	B. DRINKING     (Other sources available     COMMERCIAL, IND     (No other water source)	OUSTRIAL, IRRIGATIO	;L.	OMMERCIAL, mited other source	INDUSTRIAL, (RRIGA ces available)	TION	□ D. NOT USED, UNUSEA	BLE
02 POPULATION SERVED BY	GROUND WAT	ER		03 DISTANC	E TO NEARES	ST DRINKING WATER	WELL	(mi)	
04 DEPTH TO GROUNDWATE	R	05 DIRECTION OF GRO	UNDWATER FLOW	06 DEPTH TO OF CONC		07 POTENTIAL YIE OF AQUIFER	LD	08 SOLE SOURCE AQU	1
	_(ft)				(ft)		(gpd)		
09 DESCRIPTION OF WELLS									
10 RECHARGE AREA				11 DISCHAR	Ī				
☐ YES COMMENTS				☐ YES	COMMENT	rs			
IV. SURFACE WATER				<del></del>	<u> </u>	· · · · · · · · · · · · · · · · · · ·			
01 SURFACE WATER USE (Ch	eck one)								
A. RESERVOIR, REC	REATION SOURCE	B. IRRIGATION IMPORTAN	N, ECONOMICALLY TRESOURCES	∕ □ C.0	COMMERCIA	AL, INDUSTRIAL		D. NOT CURRENTLY U	ISED
02 AFFECTED; POTENTIALLY	AFFECTED 80	DIES OF WATER							
NAME:				*		AFFECTED	)	DISTANCE TO SITE	
NANCY CO	ook							1/0	
Chatte her	chee	River						5	_ (mi)
<u> </u>	<u> </u>	12100							_ (mi) _ (mı)
V DELLO ÓDA DULO ALIE		/ INITODIA TION							_ (,
V. DEMOGRAPHIC AND		TINFORMATION			100	DISTANCE TO ME AD	FOTDOD	LU ATION	
01 TOTAL POPULATION WITH					1	DISTANCE TO NEAR	E31 FOP	GLATION	
ONE (1) MILE OF SITE  A NO SOF PERSONS	TW	NO OF PERSONS	C.	3) MILES OF	}			(mi)	
03 NUMBER OF BUILDINGS W	(THIN TWO (2)			04 DISTANC	E TO NEARES	ST OFF-SITE BUILDIN	G		
-								(mi)	
05 POPULATION WITHIN VICI	VITY OF SITE :	Provide narrative description of i	nature of population within	Acurity of site le	g , tural, village, i	densely populated urban a	rea)		
The facility Population	y is	in a hea	uily ind	ustria	lited	area w	ith	dense	
Population	ý.								
• • •									

**SEPA** 

## POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION

1. STATE OF SITE NUMBER

GA DO 72472707

<b>VETA</b>	PART 5 - WATER, DEMOGRAPH	HIC, AND ENVIRONMENTAL DATA	GA 10072472707
VI. ENVIRONMENTAL INFORMA			
'01 PERMEABILITY OF UNSATURATED Z			
<b>☆</b> A. 10-6 ~ 10-	<sup>-9</sup> cm/sec	2 C. 10 <sup>-4</sup> − 10 <sup>-3</sup> cm/sec ☐ D. GREATER	THAN 10 <sup>-3</sup> cm/sec
D2 PERMEABILITY OF BEOROCK Check	ore.		
_ A. IMPERN Less (nan	MEABLE S B. RELATIVELY IMPERMEAE 10 <sup>-6</sup> cm seci	BLE C. RELATIVELY PERMEABLE C.D.	VERY PERMEABLE (Greater (han 10 <sup>-2</sup> cm sec)
03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
(ft)	(ft)		
C6 NET PRECIPITATION (in)	07 ONE YEAR 24 HOUR RAINFALL  3.5 (in)	08 SLOPE SITE SLOPE DIRECTION OF SITE S	LOPE TERRAIN AVERAGE SLOPE
09 FLOOD POTENTIAL	10		
SITE IS INYEAR FLC	DODPLAIN SITE IS ON BARR	IER ISLAND, COASTAL HIGH HAZARD AREA,	RIVERINE FLOODWAY
11 DISTANCE TO WETLANDS 15 acre minim	num)	12 DISTANCE TO CRITICAL HABITAT (of endangere	
ESTUARINE	OTHER	_ <i>N/I</i>	<del>2(mi)</del>
A <b>N/A</b> (mi)	B(mi)	ENDANGERED SPECIES:	
13 LAND USE IN VICINITY		·	"
DISTANCE TO:			
COMMERCIAL/INDUSTR	RESIDENTIAL AREAS; NATIC FORESTS, OR WILDLIF		CULTURAL LANDS ID AG LAND
A(mi)	B. 4 1/2	(mi) c	(mi) D. <u>75</u> (mi)
14 DESCRIPTION OF SITE IN RELATION	TO SURROUNDING TOPOGRAPHY		
		•	
-			
•			
4			
,			
	•		
,	•	•	
VII. SOURCES OF INFORMATIO	N (Cité spécific références, e.g., state files, sample analysis	. reports)	
u.s. Dept. of Coma of the United Sta	IN (Cite specific references, a.g., state files, sample analysis werce, Climate Atlas at cates	the united States, Rais	HOII Frequency Atlas
Topographic Quadr	aughe Map of Chamble	ee-1454	
Nus Field Loghod	K F4-1950	•	

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#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENT	IFICATION
O1 STATE	02 SITE NUMBER D07 <i>2472</i> 707

<b>72 (-1</b> )		P	ART 6 - SAMPLE AND FIELD INFORMATION	C. Perarrarur
II. SAMPLES TAK	EN	<del> </del>		
SAMFLE TYPE		01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER				
SURFACE WATER	₹			
WASTE	* ****			
AIR				
RUNOFF				
SPILL				
SOIL				•
VEGETATION				
OTHER			***************************************	
III. FIELD MEASUR	REMENTS TA	KEN		
1 TYPE .		02 COMMENTS		
IV. PHOTOGRAPH	IS AND MAPS	<u> </u>		
01 TYPE K GROU	ND = AERIAL		02 IN CUSTODY OF NUS Corperation or individual of organization or individual	uali
X YES	04 LOCATION NUS			
	ATA COLLE	CTED (Provide narrative des	icription)	
-				
- - -				
i.		•		
:				
5 - - - - -				
VI. SOURCES OF	INFORMATIO	N :Cite specific references, e	g state Mes, sample analysis, reports.	
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· 0 = 0 4		POTENTIAL HAZARDOUS WASTE SITE				I. IDENTIFICATION  01,STATE   02 SITE NUMBER		
<b>≎EPA</b>			SITE INSPECTION REPORT PART 7 - OWNER INFORMATION					E NUMBER 72472707
I. CURRENT OWNER(S)				PARENT COMPANY (If applicable)				
on NAME VAN Waters + Rocy	ers	02 0	+8 NUMBER	OB NAME			09.0	+8 NUMBER
03 STREET ADDRESS P O Box RED . Btc . 3	-		04 SIC CODE	10 STREET ADDRESS (P O Box, RFD #, etc.)			٠,	11 SIC CODE
05 CITY	06 STATE	07 Z	IP CODE	12 CITY		13 STATE	14 Z	IP CODE
O'I NAME		02 0	)+B NUMBER	08 NAME		<u> </u>	09 0	+B NUMBER
OS STREET ADDRESS (P O Box, RFD #, etc.)		L	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)			<b>!</b>	11 SIC CODE
ος αιτγ	06 STATE	07	ZIP CODE	12 CITY		13 STATE	14 2	I CIP CODE
O' NAME	<del>,,</del>	02	D+8 NUMBER	08 NAME			09 0	+B NUMBER
03 STREET ADDRESS (P O. Box, AFD #, etc.)		·L	04 SIC CODE	10 STREET ADDRESS (P.O. Box. RFD #. etc.)			<b></b>	11SIC CODE
05 CITY	06 STATE	07 2	ZIP CODE	12 CITY		13 STATE	142	IP CODE
01 NAME		02 (	O+B NUMBER	OB NAME		I	09 0	)+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		<b>-</b>	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD +, etc.)			l	1 1 SIC CODE
05 CITY	06 STATE	07	ZIP CODE	12 CITY		13 STATE	14	ZIP CODE
III. PREVIOUS OWNER(S) (List most recent:	hrst)			IV. REALTY OWNER(S) (If applicable, its	t most rece	nt first)	<u> </u>	
orname Foremost - McKes	50N	02 (	O+B NUMBER	01 NAME			02.0	)+B NUMBER
03 STREET ADDRESS (P O. Box. RFD #. etc.)			04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD ≠, etc.)	<u>-</u>		•	04 SIC CODE
05 CITY	08 STATE	07 2	ZIP CODE	05 CITY		06 STATE	07	ZIP CODE
OINAME McKesson Corpor	ntion	02 0	+8 NUMBER	01 NAME			02	D+B NUMBER
03 STREET ADDRESS (P O. Box RFD #, etc.)		<u> </u>	04 SIC CODE	03 STREET ADDRESS (P.O. Box. RFD #, etc.)			<del></del> -	04 SIC CODE
05 C TY	06 STATE	07 Z	IP CODE	05 CITY		06 STATE	07 2	ZIP CODE
O1 NAME		021	D+B NUMBER	01 NAME			02	D+8 NUMBER
03 STREET ADDRESS (P.O. Box. RFO #, etc.)		<u> </u>	04 SIC CODE	03 STREET ADDRESS (P O. Box. RFD #, etc.)		·	-	04 SIC CODE
05CNY	06STATE	07	ZIP CODE	OS CITY		06 STATE	07 2	ZIP CODE
V. SOURCES OF INFORMATION (Cite s	pecific references.	e.g ,	state files, sample analys	is, reports)				
EPA and State fi	les							

EPA FORM 2070-13 (7-81)

	PO'	TENTIAL HAZ	ARDOUS WASTE SITE	I. IDENTIF	
<b>⇔</b> EPA		SITE INSPE	CTION REPORT	01 STATE 02 SITE NUMBE	
II CURRENT OPERATOR			OPERATOR'S PARENT COMPA	NV	
II. CURRENT OPERATOR Provide if		2 D+B NUMBER	10 NAME	чи паррисаота)	11 D+B NUMBER
Van Waters + P. 03 STREET ADDRESS PO BOX AFD.	mons		UNivar		
03 STREET ADDRESS (P.O. Box, RFD • etc.,	1	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc		13 SIC CODE
D5 CITY	06 STATE C	7 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
4					
8 YEARS OF OPERATION 09 NAME OF	OWNER				
			· ·	_	
II. PREVIOUS OPERATOR(S) (List m	nost recent first; provide only	if different from owner)	PREVIOUS OPERATORS' PARE	ENT COMPANIES at	applicablej
1 NAME		2 0+B NUMBER	10 NAME		11 D+B NUMBER
Moreland McKe	SSON		McKesson Corn	DoratioN	
3 STREET ADDRESS (P O. Box, RFD #, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc	c.)	13 SIC CODE
		<u> </u>			
5 CITY	06 STATE	7 ZIP CODE	14 CiTY	15 STATE	16 ZIP CODE
		250.00			
8 YEARS OF OPERATION 09 NAME OF	FOWNER DURING THIS	PERIOD			
NAME.	16	2 D+B NUMBER	10 NAME		11 D+B NUMBER
01 NAME	ľ	2 DTS NUMBER	TONAME		11 D+B NOMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		104 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc	- 1	13 SIC CODE
· ·			120002200200000000000000000000000000000	•••	
05 CITY	OB STATE C	7 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
÷					
8 YEARS OF OPERATION 09 NAME OF	FOWNER DURING THIS	PERIOD		I	l
1 NAME	Į.	2 D+B NUMBER	10 NAME		11 D+8 NUMBER
:					
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	·····	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc	c.)	13 SIC CODE
i					
5 CITY	06 STATE	7 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION 09 NAME OF	FOWNER DURING THIS	PERIOD			
IV. SOURCES OF INFORMATION	(Cite specific references, e.	g., state files, sample analy	sis. reports)		
EPA and State	Files				
Cry and state	, ,,,,,				
; ;					
<u>i</u>					
1					
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18. OFF-SITE GENERATOR(S)  19. STREET ADDRESS (P. O. BOX. PP.P. N. N.C.)  10. OS STATE O7 ZIP CODE  10. STREET ADDRESS (P. O. BOX. PP.P. N. N.C.)  10. STATE O7 ZIP CODE	STREET ADDRESS PO SC RED FIL.	O6 STATE				
04 SIC CODE  18. OFF-SITE GENERATOR(S)  19. OFF-SITE GENERATOR(S)  10. NAME  10. OFF-SITE GENERATOR(S)  10. OFF-SITE GENERATOR(S)  10. NAME  10. OFF-SITE GENERATOR(S)  10. NAME  10. OFF-SITE GENERATOR(S)  10. NAME  10. OFF-SITE GENERATOR(S)  10. OFF-SITE GENERATOR(S)  10. OFF-SITE GENERATOR(S)  10. OFF-SIT	STREET ADDRESS PO SCI REDIFIED.	06 STATE			<del></del>	
10   10   10   10   10   10   10   10	<u> </u>	06 STATE	04 SIC CODE			
10   10   10   10   10   10   10   10	<u> </u>	06 STATE	04 SIC CODE			
III. OFF-SITE GENERATOR(S)   O1 NAME	CITY	06 STATE		7		
III. OFF-SITE GENERATOR(S)   O1 NAME	CITY	06 STATE	İ			
11 NAME		- 1	07 ZIP CODE			
1 NAME         02 D+B NUMBER         01 NAME         02 D+B NUMBER           3 STREET ADDRESS (P.O. Box, RFD → Mc.)         04 SIC CODE         03 STREET ADDRESS (P.O. Box, RFD → Mc.)         04 SIC CODE           5 GITY         06 STATE (07 ZIP CODE         05 CITY         06 STATE (07 ZIP CODE           1 NAME         02 D+B NUMBER         01 NAME         02 D+B NUMBER           3 STREET ADDRESS (P.O. Box, RFD → Mc.)         04 SIC CODE         03 STREET ADDRESS (P.O. Box, RFD → Mc.)         06 STATE (07 ZIP CODE           5 CITY         06 STATE (07 ZIP CODE         05 CITY         06 STATE (07 ZIP CODE         05 CITY           V. TRANSPORTER(S)         02 D+B NUMBER         01 NAME         02 D+B NUMBER         01 NAME           3 STREET ADDRESS (P.O. Box, RFD → Mc.)         04 SIC CODE         03 STREET ADDRESS (P.O. Box, RFD → Mc.)         04 SIC CODE           3 CITY         06 STATE (07 ZIP CODE         05 CITY         06 STATE (07 ZIP CODE         04 SIC CODE           3 STREET ADDRESS (P.O. Box, RFD → Mc.)         04 SIC CODE         03 STREET ADDRESS (P.O. Box, RFD → Mc.)         04 SIC CODE           3 STREET ADDRESS (P.O. Box, RFD → Mc.)         04 SIC CODE         03 STREET ADDRESS (P.O. Box, RFD → Mc.)         04 SIC CODE						
3 STREET ADDRESS (P.O. Box. RFD *, etc.)  O4 SIC CODE  O5 CITY  O6 STATE O7 ZIP CODE  O7 ZIP CODE  O7 ZIP CODE  O7 ZIP CODE  O7 ZIP CODE	. OFF-SITE GENERATOR(S)					
S CITY	NAME		02 D+B NUMBER	01 NAME	0	2 D+B NUMBER
S CITY						
1 NAME	STREET ADDRESS (P.O. Box. RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS :P.O Box, RFD #	, etc.)	04 SIC CODE
1 NAME						
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5 CITY						
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V. TRANSPORTER(S)  1 NAME    02 D+B NUMBER   01 NAME   02 D+B NUMBER   04 SIC CODE   03 STREET ADDRESS (P 0. Box, RFD #. etc.)   04 SIC CODE   05 CITY   06 STATE   07 ZIP CODE   05 CITY   07 ZIP CODE   05 CITY   07 ZIP CODE   05 CITY   07 ZIP CODE   05 CITY   07 ZIP CODE   0						ĺ
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SOURCES OF INFORMATION (Can consider adjustments A.C., state files, expedie analysis, consists	CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
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	SOURCES OF INFORMATION (Cite	e specific references,	e.g., state files, sample analys	is reportsi		
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#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES

	TIFICATION
01 STATE	02 SITE NUMBER DO7 <i>3472707</i>
GA	100724 12101

. PAST RESPONSE ACTIVITIES None	1/ 22000		
01 T. A. WATER SUPPLY CLOSED	O2 DATE	03 AGENCY	
04 DESCRIPTION	OZ DATE	US AGENCT	
01 T.B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE	O3 AGENCY	
01, _ C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 T. D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 ☐ E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 C F. WASTE REPACKAGED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 ☐ G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	02 DATE	O3 AGENCY	
01  H. ON SITE BURIAL 04 DESCRIPTION	02 DATE	O3 AGENCY	
01 🗇 I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
01  J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
01 E.K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
01 T. ENCAPSULATION 04 DESCRIPTION	02 DATE	03 AGENCY	
01  M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
01 N. CUTOFF WALLS 04 DESCRIPTION	02 DATE	03 AGENCY	
01 CO. EMERGENCY DIKING SURFACE WATER DIVERSION 04 DESCRIPTION	02 DATE	03 AGENCY	
01 ☐ P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	02 DATE	03 AGENCY	
01 _ Q SUBSURFACE CUTOFF WALL 04 DESCRIPTION	02 DATE	- 03 AGENCY	

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#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES

I. IDEN	TIFICATION
01 STATE	02 SITE NUMBER
GA	D072472707

02 DATE	03 AGENCY
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	02 DATE



#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01.STATE 02 SITE NUMBER

GA D072472707

PART IT-ENFORCE	MENTINFORMATION	
II. ENFORCEMENT INFORMATION		
01 PAST REGULATORY ENFORCEMENT ACTION YES /NO		
02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY ENFORCEMENT ACTION		
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III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis	s, reports)	
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## **APPENDIX**

### I. FEEDSTOCKS

CAS Number	Chemical Name	CAS Number	Chemical Name	CAS Number	Chemical Name
1. 7664-41-7	Ammonia	14. 1317-38-0	Cupric Oxide	27. 7778-50-9	Potassium Dichromate
2. 7440-36-0	Antimony	15. 7758-98-7	Cupric Sulfate	28. 1310-58-3	Potassium Hydroxide
3. 1309-64-4	Antimony Trioxide	16. 1317-39-1	Cuprous Oxide	29. 115-07-1	Propylene
4. 7440-38-2	Arsenic	17. 74-85-1	Ethylene	30. 10588-01-9	Sodium Dichromate
5. 1327-53-3	Arsenic Trioxide	18. 7647-01-0	Hydrochloric Acid	31. 1310-73-2	Sodium Hydroxide
6. 21 09-95-5	Barium Sulfide	19. 7664-39-3	Hydrogen Fluoride	32. 7646-78-8	Stannic Chloride
7. 7726-95-6	Bromine	20. 1335-25-7	Lead Oxide	33. 7772-99-8	Stannous Chloride
8. 106-99-0	Butadiene	21. 7439-97-6	Mercury	34. 7664-93-9	Sulfuric Acid
9. 7440-43-9	Cadmium	22. 74-82-8	Methane	35. 108-88-3	Toluene
10. 7782-50-5	Chlorine	23. 91-20-3	Napthalene	36. 1330-20-7	Xylene
11. 12737-27-8	Chromite	24. 7440-02-0	Nickel	37. 7646-85-7	Zinc Chloride
12, 7440-47-3	Chromium	25. 7697-37-2	Nitric Acid	38. 7733-02-0	Zinc Sulfate
13. 7440-48-4	Cobalt	26. 7723-14-0	Phosphorus		

### II. HAZARDOUS SUBSTANCES

CAS Number	Chemical Name	CAS Number	Chemical Name	CAS Number	Chemical Name
1.75-07-0	Acetaldehyde	47. 1303-33-9	Arsenic Trisulfide	92, 142-71-2	Cupric Acetate
2. 64-19-7	Acetic Acid	48. 542-62-1	Barium Cyanide	93. 12002-03-8	Cupric Acetoarsenite
3. 108-24-7	Acetic Anhydride	49. 71-43-2	Benzene	94, 7447-39-4	Cupric Chloride
4. 75-86-5	Acetone Cyanohydrin	50. 65-85-0	Benzoic Acid	95, 3251-23-8	Cupric Nitrate
5. 50 <del>6</del> -96-7	Acetyl Bromide	51. 100-47-0	Benzonitrile	96, 5893-66-3	Cupric Oxalate
6. 75-36-5	Acetyl Chloride	52. 98-88-4	Benzoyl Chloride	97. 7758-98-7	Cupric Sulfate
7. 107-02-8	Acrolein	53. 100-44-7	Benzyl Chloride	98. 10380-29-7	Cupric Sulfate Ammoniated
8. 107-13-1	Acrylonitrile	54. 7440-41-7	Beryllium	99. 815-82-7	Cupric Tartrate
9. 124-04-9	Adipic Acid	55. 7787-47-5	Beryllium Chloride	100.506-77-4	Cyanogen Chloride
10. 309-00-2	Aldrin	56. 7787-49-7	Beryllium Fluoride	101.110-82-7	Cyclohexane
11. 10043-01-3	Aluminum Sulfate	57. 13597-99-4	Beryllium Nitrate	102. 94-75-7	2,4-D Acid
12. 107-18-6	Aliyi Aicahol	58. 123-86-4	Butyl Acetate	103.94-11-1	2,4-D Esters
13, 107-05-1	Allyl Chloride	59. 84-74-2	n-Butyl Phthalate	104.50-29-3	DDT
14. 7664-41-7	Ammonia	60. 109-73-9	Butylamine	105.333-41-5	Diazinon
15. 631-61-8	Ammonium Acetate	61. 107-92-6	Butyric Acid	106. 1918-00-9	Dicamba
16. 1863-63-4	Ammonium Benzoate	62. 543-90-8	Cadimium Acetate	107. 1194-65-6	Dichlobenil
17. 106 <del>[</del> 6-33-7	Ammonium Bicarbonate	63. 7789-42-6	Cadmium Bromide	108. 117-80-6	Dichlone
18. 7789-09-5	Ammonium Bichromate	64. 10108-64-2	Cadmium Chloride	109. 25321-22-6	Dichlorobenzene (all isomers)
19. 134 1-49-7	Ammonium Bifluoride	65. 7778-44-1	Calcium Arsenate	110. 266-38-19-7	Dichloropropane (all isomers)
20. 10192-30-0	Ammonium Bisulfite	66. 52740-16-6	Calcium Arsenite	111. 26952-23-8	Dichloropropene (all isomers)
21. 1111-78-0	Ammonium Carbamate	67. 75-20-7	Calcium Carbide	112.8003-19-8	Dichloropropene-
22. 12125-02-9	Ammonium Chloride	68. 13765-19-0	Calcium Chromate		Dichloropropane Mixture
23. 7788-98-9	Ammonium Chromate	69. 592-01-8	Calcium Cyanide	113. 75-99-0	2-2-Dichloropropionic Acid
24. 3012-65-5	Ammonium Citrate, Dibasic	70. 26264-06-2	Calcium Dodecylbenzene	114.62-73-7	Dichlorvos
25. 13826-83-0	Ammonium Fluoborate		Sulfonate	115.60-57-1	Dieldrin
26. 12125-01-8	Ammonium Fluoride	71. 7778-54-3	Calcium Hypochlorite	116.109-89-7	Diethylamine
27. 1336-21-6	Ammonium Hydroxide	72. 133-06-2	Captan	117. 124-40-3	Dimethylamine
28. 6009-70-7	Ammonium Oxalate	73.63-25-2	Carbaryl	118, 25154-54-5	Dinitrobenzene (all isomers)
29. 16919-19-0	Ammonium Silicofluoride	74. 1563-66-2	Carbofuran	119.51-28-5	Dinitrophenol
30.7773-06-0	Ammonium Sulfamate	75. 75-15-0	Carbon Disulfide	120, 25321-14-6	Dinitrotoluene (all isomers)
31. 12135-76-1	Ammonium Sulfide	76. 56-23-5	Carbon Tetrachloride	121.85-00-7	Diquat
32. 10196-04-0	Ammonium Sulfite	77. 57-74- <del>9</del>	Chiordane	122. 298-04-4	Disulfoton
33. 14307-43-8	Ammonium Tartrate	78. 7782-50-5	Chlorine	123. 330-54-1	Diuron
34. 1762-95-4	Ammonium Thiocyanate	79. 108-90-7	Chlorobenzene	124. 27176-87-0	Dodecylbenzenesulfonic Acid
35. 7783-18-8	Ammonium Thiosulfate	80. 67-66-3	Chloroform	125. 115-29-7	Endosulfan (all isomers)
36. 628-63-7	Amyl Acetate	81.7790-94-5	Chlorosulfonic Acid	126. 72-20-8	Endrin and Metabolites
37. 62-53-3	Aniline	82. 2921-88-2	Chlorpyrifos	127. 106-89-8	Epichlorohydrin
38. 7647-18-9	Antimony Pentachloride	83, 1066-30-4	Chromic Acetate	128.563-12-2	Ethion
39. 7789 61-9	Antimony Tribromide	84. 7738-94-5	Chromic Acid	129. 100-41-4	Ethyl Benzene
40. 10025-91-9	Antimony Trichloride	85. 10101-53-8	Chromic Sulfate	130. 107-15-3	Ethylenediamine
41. 7783-56-4	Antimony Trifluoride	86.10049-05-5	Chromous Chloride	131.106-93-4	Ethylene Dibromide
42.1309.64.4	Antimony Trioxide	87. 544-18-3	Cobaltous Formate	132. 107-06-2	Ethylene Dichloride
43, 1303-32-8	Arsenic Disulfide	88.14017-41-5	Cobaltous Sulfamate	133.60-00-4	EDTA
44. 1303-28-2	Arsenic Pentoxide	89. 56-72-4	Coumaphos	134. 1185-57-5	Ferric Ammonium Citrate
45. 7784-34-1	Arsenic Trichloride	90. 1319-77-3	Cresol	135.2944-67-4	Ferric Ammonium Oxalate
46. 1327 <sub>-</sub> 53-3	Arsenic Trioxide	91.4170-30-3	Crotonaldehyde	136. 7705-08-0	Ferric Chloride

### II. HAZARDOUS SUBSTANCES

CAS Number	Chemical Name	CAS Number	Chemical Name	CAS Number	Chemical Name
137. 7783-50-8	Ferric Fluoride	192, 74-89-5	Monomethylamine	249. 7632-00-0	Sodium Nitrate
138, 10421-48-4	Ferric Nitrate	193. 300-76-5	Naled	250, 7558-79-4	Sodium Phosphate, Dibasic
139, 10028-22-5	Ferric Sulfate	194. 91-20-3	Naphthalene	251, 7601-54-9	Sodium Phosphate, Tribasic
140, 10045-89-3	Ferrous Ammonium Sulfate	195, 1338-24-5	Naphthenic Acid	252, 10102-18-8	Sodium Selenite
141.7758-94-3	Ferrous Chloride	196, 7440-02-0	Nickel	253, 7789-06-2	Strontium Chromate
142, 7720-78-7	Ferrous Sulfate	197, 15699-18-0	Nickel Ammonium Sulfate	254. 57-24-9	Strychnine and Salts
143. 206-44-0	Fluoranthene	198. 37211-05-5	Nickel Chloride	255, 100-420-5	Styrene
144, 50-00-0	Formaldehyde	199. 12054-48-7	Nickel Hydroxide	256, 12771-08-3	Sulfur Monochloride
145. 64-18-6	Formic Acid	200. 14216-75-2	Nickel Nitrate	257.7664-93-9	Sulfuric Acid
146. 1 10-17-8	Fumaric Acid	201. 7786-81-4	Nickel Sulfate	258. 93-76-5	2,4,5-T Acid
147. 98-01-1	Furfural	202. 7697-37-2	Nitric Acid	259, 2008-46-0	2,4,5-T Amines
148, 86-50-0	Guthion	203. 98-95-3	Nitrobenzene	260.93-79-8	2,4,5-T Esters
149. 76-44-8	Heptachlor	204. 10102-44-0	Nitrogen Dioxide	261, 13560-99-1	
150. 1 18-74-1	Hexachlorobenzene	205. 25154-55-6	Nitrophenol (all isomers)	262. 93-72-1	2,4,5-TP Acid
151.87-68-3	Hexachlorobutadiene	206. 1321-12-6	Nitrotoluene	263. 32534-95-5	2,4,5-TP Acid Esters
152.67-72-1	Hexachloroethane	207. 30525-89-4	Paraformaldehyde	264. 72-54-8	TDE
153. 70-30-4	Hexachlorophene	208. 56-38-2	Parathion	265, 95-94-3	Tetrachlorobenzene
154. 77-47-4	Hexachlorocyclopentadiene	209. 608-93-5	Pentachlorobenzene	266, 127-18-4	Tetrachloroethane
155. 7647-01-0	Hydrochloric Acid	210. 87-86-5	Pentachlorophenoi	267. 78-00-2	Tetraethyl Lead Tetraethyl Pyrophosphate
156. 7664-39-3	(Hydrogen Chloride)	211. 85-01-8	Phenanthrene	268, 107-49-3 269, 7446-18-6	Thallium (I) Sulfate
150. /004-39-3	Hydrofluoric Acid (Hydrogen Fluoride)	212. 108-95-2	Phenol	270. 108-88-3	Toluene
157, 74-90-8	Hydrogen Cyanide	213. 75-44-5	Phosgene	271,8001-35-2	Toxaphene
158, 7783-06-4	Hydrogen Sulfide	214. 7664-38-2 215. 7723-14-0	Phosphoric Acid Phosphorus	272. 12002-48-1	Trichlorobenzene (all isomers)
159. 78-79-5	Isoprene	216. 10025-87-3	Phosphorus Oxychloride	273. 52-68-6	Trichlorfon
160, 42504-46-1	Isopropanolamine	217. 1314-80-3	Phosphorus Pentasulfide	274, 25323-89-1	Trichloroethane (all isomers)
	Dodecyibenzenesulfonate	218, 7719-12-2	Phosphorus Trichloride	275. 79-01-6	Trichloroethylene
161. 115-32-2	Kelthane	219, 7784-41-0	Potassium Arsenate	276, 25167-82-2	Trichlorophenol (all isomers)
162. 143-50-0	Kepone	220. 10124-50-2	Potassium Arsenite	277, 27323-41-7	Triethanolamine
163.301-04-2	Lead Acetate	221.7778-50-9	Potassium Bichromate		Dodecylbenzenesulfonate
164. 3687-31-8	Lead Arsenate	222, 7789-00-6	Potassium Chromate	278. 121-44-8	Triethylamine
165. 7758-95-4	Lead Chloride	223. 7722-64-7	Potassium Permanganate	279. 75-50-3	Trimethylamine
166, 13814-96-5	Lead Fluoborate	224. 2312-35-8	Propargite	280. 541-09-3	Uranyl Acetate
167. 7783-46-2	Lead Fluoride	225. 79-09-4	Propionic Acid	281.10102-06-4	•
168, 10101-63-0	Lead Iodide	226. 123-62-6	Propionic Anhydride	282, 1314-62-1	Vanadium Pentoxide
169, 18256-98-9	Lead Nitrate	227, 1336-36-3	Polychlorinated Biphenyls	283. 27774-13-6	•
170. 7428-48-0	Lead Stearate	228. 151-50-8	Potassium Cyanide	284. 108-05-4	Vinyl Acetate
171. 15739-80-7	Lead Sulfate	229, 1310-58-3	Potassium Hydroxide	285, 75-35-4	Vinylidene Chloride
172, 1314-87-0	Lead Sulfide	230. 75-56-9	Propylene Oxide	286. 1300-71-6 287. 557-34-6	Xylenol Zinc Acetate
173. 592-87-0	Lead Thiocyanate	231. 121-29-9 232. 91-22-5	Pyrethrins Quinoline	288. 52628-25-8	
174. 58-89-9	Lindane	233. 108-46-3	Resorcinol	289, 1332-07-6	Zinc Borate
175. 14307-35-8	Lithium Chromate	234, 7446-08-4	Selenium Oxide	290, 7699-45-8	Zinc Bromide
176. 121-75-5 177. 110-16-7	Malthion	235. 7761-88-8	Silver Nitrate	291.3486-35-9	Zinc Carbonate
177. 1 (0-16-7 178. 108-31-6	Maleic Acid Maleic Anhydride	236. 7631-89-2	Sodium Arsenate	292. 7646-85-7	Zinc Chloride
179, 2032-65-7	Mercaptodimethur	237. 7784-46-5	Sodium Arsenite	293.557-21-1	Zinc Cyanide
180, 592-04-1	Mercuric Cyanide	238. 10588-01-9	Sodium Bichromate	294, 7783-49-3	Zinc Fluoride
181. 10045-94-0	Mercuric Nitrate	239. 1333-83-1	Sodium Bifluoride	295.557-41-5	Zinc Formate
182. 7783-35-9	Mercuric Sulfate	240. 7631-90-5	Sodium Bisulfite	296. 7779-86-4	Zinc Hydrosulfite
183. 592-85-8	Mercuric Thiocyanate	241. 7775-11-3	Sodium Chromate	297.7779-88-6	Zinc Nitrate
184. 10415-75-5	Mercurous Nitrate	242. 143-33-9	Sodium Cyanide	298. 127-82-2	Zinc Phenolsulfonate
185. 72-43-5	Methoxychlor	243. 25155-30-0	Sodium Dodecylbenzene	299, 1314-84-7	Zinc Phosphide
186. 74-93-1	Methyl Mercaptan		Sulfonate	300. 16871-71-9	
187, 80-62-6	Methyl Methacrylate	244. 7681-49-4	Sodium Fluoride	301. 7733-02-0	Zinc Sulfate
188. 298-00-0	Methyl Parathion	245. 16721-80-5	Sodium Hydrosulfide	302.13746-89-9	
189, 7786-34-7	Mevinphos	246. 1310-73-2	Sodium Hydroxide	303.16923-95-8 304.14644-61-2	
190. 315-18-4	Mexacarbate	247. 7681-52-9	Sodium Hypochlorite	1	Zirconium Surrate Zirconium Tetrachloride
191. 75-04-7	Monoethylamine	248. 124-41-4	Sodium Methylate	1 000. 10020-1140	andoment i chacmonde

#### **RECONNAISSANCE CHECKLIST FOR HRS2 CONCERNS**

Instructions: Obtain as much "up front" information as possible prior to conducting fieldwork. Complete the form in as much detail as you can, providing attachments as necessary. Cite the source for all information obtained.

Site Name: Moreland McKesson

City, County, State: Chamblee, DeKalb County, GA

EPA ID No.: GAD072472707

Person responsible for form: Alvin L. Williams

Date: 1-16-90

#### Air Pathway

Describe any potential air emission sources onsite: N/A

Identify any sensitive environments within 4 miles: N/A

Identify the maximally exposed individual (nearest residence or regularly occupied building - workers do count): Ingersoll Rand Company, approximately 50 yards east of facility

#### **Groundwater Pathway**

Identify any areas of karst terrain: None

Identify additional population due to consideration of wells completed in overlying aquifers to the AOC: No

Do significant targets exist between 3 and 4 miles from the site? No

Is the AOC a sole source aquifer according to Safe Drinking Water Act? (i.e. is the site located in Dade, Broward, Volusia, Putnam, or Flagler County, Florida): No

#### Surface Water Pathway

Are there intakes located on the extended 15-mile migration pathway? No

Are there recreational areas, sensitive environments, or human food chain targets (fisheries) along the extended pathway? There is recreational fishing along Nancy Creek

#### **Onsite Exposure Pathway**

Is there waste or contaminated soil onsite at 2 feet below land surface or higher? Unknown

Is the site accessible to non-employees (workers do not count)? No

Are there residences, schools, or day care centers onsite or in close proximity? Few resident houses approximately 500 feet northeast of facility; Circle of Children Play School approximately 3,000 feet west of facility.

Are there barriers to travel (e.g., a river) within one mile? No

#### HAZARD RANKING SYSTEM SCORING SUMMARY

#### FOR

MORELAND MCKESSON COMPANY
EPA SITE NUMBER GADO72472707
CHAMBLEE
DEKALB COUNTY. GA
EPA REGION: 4

SCORE STATUS: IN PREPARATION

SCORED BY ALVIN WILLIAMS
OF NUS CORPORATION
ON 01/05/90

DATE OF THIS REPORT: 02/08/90
DATE OF LAST MODIFICATION: 02/08/90

GROUND WATER ROUTE SCORE: 3.67
SURFACE WATER ROUTE SCORE: 7.27
AIR ROUTE SCORE: 0.00

MIGRATION SCORE . . . . . 4.71

## HRS GROUND WATER ROUTE SCORE

	CATEGORY/FACTOR	₹	RAW DATA	· · · · · · · · · · · · · · · · · ·	ASN. VALU	JE S	CORE	- , 11.9 &d
. 1 .	OBSERVED RELEAS	on, prime	NO	uder " r : déed 	O		()	
Park H	ROUTE CHARACTER	RISTICS		***************************************		.*2"		
:	DEPTH TO WATER DEPTH TO BOTTOM		30	FEET	5		·	
	DEPTH TO AQUIFE	ER OF CONCERN	24	FEET	2		4	
	PRECIPITATION EVAPORATION			INCHES				
	NET PRECIPITAT	ION	_ 8.O	INCHES	2	हर इ. हे •	2	- · ·
	PERMEABILITY		1.0X10-7	CM/SEC	0.1		O	
ŧ	PHYSICAL STATE				3		3	
:	TOTAL ROUTE CHA	ARACTERISTICS S	CORE:				9	-
	CONTAINMENT			**************************************	-23 /3		3	un genta hitiga n ili
Z.j. <sub>R</sub>	WASTE CHARACTER	RISTICS						
	TOXICITY/PERSIS	STENCE: ASSIGNED	VALUE,18			-	18	. ८ हम
	WASTE QUANTITY	CUBIC YDS DRUMS GALLONS TONS	- 2501 7 0. 7 0 0	· · · · · · · · · · · · · · · · · · ·				
		TOTAL	2501	CU. YD	3 . 8 .		8	
:	TOTAL WASTE CHA	ARACTERISTICS S	CORE:		:		26	
-1:3° #	TARGETS	na na na na na na na na na na na na na n			i		······	and the second
:	GROUND WATER US	€			1.	4	3	
	NUMBER OF CO	AREST WELL  DN SERVED  JUSES  ERSONS  JUNECTIONS  RRIGATED ACRES		FEET ALUE PERSON	3		a i	# - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
- - - - - -	TOTAL TARGETS S	SCORE:	Commence of the commence of th				3	
	GRI	DUND WATER ROUT	TE SCORE (	Sgw) =	3.67			

## HRS SURFACE WATER ROUTE SCORE

	CATEGORY/FACTOR	RAW DATA	AS AS	N. VALL	Æ	SCORE
1.	OBSERVED RELEASE	NO	enter control de la control de	)		0
₽.	ROUTE CHARACTERISTICS	- -				
	SITE LOCATED IN SURFACE WATER SITE WITHIN CLOSED BASIN FACILITY SLOPE INTERVENING SLOPE	NO NO 1.0 1.0		0		o <sup>-</sup>
-	24-HOUR RAINFALL	3.5	INCHES	É		2
	DISTANCE TO DOWN-SLOPE WATER	2600	FEET	2	200	4
	PHYSICAL STATE		3 1		38F	3
=	TOTAL ROUTE CHARACTERISTICS SCO	RE:				io
- 5 m	CONTAINMENT		B	mana di di di di di di di di di di di di di	· - = =	3
4,	WASTE CHARACTERISTICS			*	**************************************	**************************************
-	TOXICITY/PERSISTENCE: ASSIGNED V	ALUE,18				18
	WASTE QUANTITY CUBIC YDS DRUMS GALLONS TONS	2501 0 0				
-	TOTAL	2501	CU. YDS	8		8 .
-	TOTAL WASTE CHARACTERISTICS SCO	RE:	· .			56
-E	TARGETS					
;	SURFACE WATER USE	r i		2		6
- - -	DISTANCE TO SENSITIVE ENVIRONME COASTAL WETLANDS FRESH-WATER WETLANDS CRITICAL HABITAT	NONE NONE NONE NONE				o ;
	DISTANCE TO STATIC WATER  DISTANCE TO WATER SUPPLY INTAKE  AND  TOTAL POPULATION SERVED  NUMBER OF HOUSES  NUMBER OF PERSONS  NUMBER OF CONNECTIONS  NUMBER OF IRRIGATED ACRES			0		• • • • • • • • • • • • • • • • • • •
	TOTAL TARGETS SCORE:	-	· .	E 1 1 E 1	**	6

### HRS AIR ROUTE SCORE

-	CATEGORY/FACTOR	· -	22.00	RAW	DATA	ASN. V	ALUE .	SCORE
1.	OBSERVED RELEAS	eren Eren Lean	ত প্ৰকাশ সংখ্যা স	N	O	And market the could be a second	O	0
2.	WASTE CHARACTER	ISTICS.	-	-	·	<u>-</u>	·	·
	REACTIVITY:						4 1 24 1 + 14000	
·	INCOMPATIBILITY					MATRIX	VALUE	
	TOXICITY							· ·
	WASTE QUANTITY	DRUMS GALLONS TONS	IRDS				**************************************	- - - - <del>-</del>
		TOTAL				=		-
	TOTAL WASTE CHA	RACTERIST	ICS SC	CORE:				NZA
Э.	TARGETS			•		<u>-</u>		
	POPULATION WITH O to 0.25 mi O to 0.50 mi O to 1.0 mil O to 4.0 mil	le le e	RADIU	IS				unter
	DISTANCE TO SEN COASTAL WETL FRESH-WATER CRITICAL HAB	ANDS WETLANDS	NV I RONI	MENTS		12		
	DISTANCE TO LAN COMMERCIAL/I PARK/FOREST/ AGRICULTURAL PRIME FARMLA HISTORIC SIT	NDUSTRIAL RESIDENT) LAND ND	IAL					e e e e e e e e e e e e e e e e e e e
- - -	TOTAL TARGETS S	CORE:						NŽA
7413, 4440***** 1 - -	AI	R ROUTE S	SCORE	(Sa) =	0.00	-		

SITE: MORELAND MCKESSON COMPANY AS OF 02/08/90

GROUND	WATER	ROUTE	STORE
mi imimi iii.	V-21"1 1 1 1 \	11121211	

ROUTE CHARACTERISTICS 9 X 3 . . . . CONTAINMENT WASTE CHARACTERISTICS X 26 TARGETS X 3

2106 /57,330 X 100 = 3.67 = 5 ...

#### SURFACE WATER ROUTE SCORE

ROUTE CHARACTERISTICS 10 CONTAINMENT Х . З WASTE CHARACTERISTICS X 26 TARGETS X 6

=  $4680 / 64,350 \times 100 = 7.27 = 5_{**}$ 

AIR ROUTE SCORE

OBSERVED RELEASE 0 /35,100  $\times$  100 = 0.00 =  $\times$ 

#### SUMMARY OF MIGRATION SCORE CALCULATIONS

	S	SE
GROUND WATER ROUTE SCORE (Saw)	3.67	13.47
SURFACE WATER ROUTE SCORE (S_w)	7.27	52.85
AIR ROUTE SCORE (S. 1-)	0.700.000	0.00
5° = 4 5 = 4 5° * 4 5°		66.32
(9° gu + 5° gu + 5° mir)		8.14
Sm = v (Se ow + Se w + Se atr)/1.73		4.71